TIL-TEK

Solutions that Work

Affordable Quality

ISO 9001:2000

Reliability

Service

TIL-TEK Antennae Inc.
P.O. Box 550
Kemptville, Ontario
Canada
K0G 1J0

Quality

Quality Management System (QMS):

As a leading supplier of communications solutions to a global marketplace, TIL-TEK is committed to achieving the highest possible quality in all of its products and services. Both our Manufacturing and Research & Development facilities in Canada are ISO 9001:2000 compliant and have been certified since 1996.

Quality is one of the cornerstones of customer value along with innovation, cost and service/support. All product leaves the plant having gone through a rigorous process with a final verification stamp indicating conformance to that process. TIL-TEK is an ISO 9001:2000 registered company. This worldwide standard covers our entire operation of the company from order entry to shipping, from product design to production. Quality will never be compromised either over the long term or for short term convenience.

TIL-TEK's Quality Management System (QMS) provides the guidance and controls for an effective process management system. By implementing and maintaining the QMS, we will consistently provide product that meets customer and applicable regulatory requirements.

Quality Policy:

TIL-TEK will strive to provide our customer with products and services that ensure a high level of customer loyalty and satisfaction. We are committed to a Quality Management System that supports and encourages a culture of customer focus, teamwork, continuous improvement and standards of excellence.

Quality Objectives:

Management has ensured its quality objectives are established and communicated within the company. The Quality Objectives are measureable and consistent with TIL-TEK's Quality Policy and include the requirements needed for planning product realization.

TIL-TEK is committed to:

* Customer loyalty and satisfaction.
* Product quality, delivery and service.
* Continuous improvement of the Quality Management System.
* Teamwork and standards of excellence.

Warranty

The specifications on our product data sheets are for reference purposes only and may change at any time without prior notice. For exact specifications, the factory or an authorized representative should be contacted.

TIL-TEK products are warranted against defects in material and workmanship under normal use for a period of three years from the date of shipment from the factory. Authorization must be obtained from TIL-TEK prior to returning a product for warranty service and the product must be returned to TIL-TEK with all transportation charges prepaid. See RMA policy for details.

Warranty repair or replacement without charge will be made only after inspection at the factory shows a defect in material or workmanship. TIL-TEK will pay the return transportation charges, but all other expenses including duty, taxes, storage and all other transaction fees shall be paid by the customer. The warranty period shall not be extended beyond its original term with respect to any part or parts repaired or replaced by TIL-TEK.

TIL-TEK is in no event liable for consequential damages or other costs of any nature resulting from the use of the products it manufactures. TIL-TEK is not liable for replacement from the use of any products damaged by lightning. TIL-TEK is not liable for delays in or inability to fulfill contractual obligations when the causes thereof are beyond the reasonable control of TIL-TEK. TIL-TEK neither assumes nor authorizes any person to assume for it, any obligation or liability other than as herein expressly stated.

This limited warranty is in lieu of all other warranties, either expressed or implied.

Return Material Authorization (RMA) Policy

TIL-TEK products are warranted against defects in material and workmanship under normal use for a period of three years from the date of shipment from the factory. A RMA number must be obtained from TIL-TEK prior to returning a product for warranty service. The product must be returned to TIL-TEK with all transportation charges prepaid.

Defective Antenna: Provided an antenna is found to be defective under the terms of the warranty, TIL-TEK will repair, replace and return the antenna at no charge to the customer.

No Fault Found: If, after evaluation, the antenna is found to still meet TIL-TEK's electrical and mechanical specifications:

1) The customer shall incur an evaluation charge of 25% of the list price or a minimum fee of $80.00 CDN.

2) The customer is responsible to incur the return freight. The antenna will be returned via freight collect.

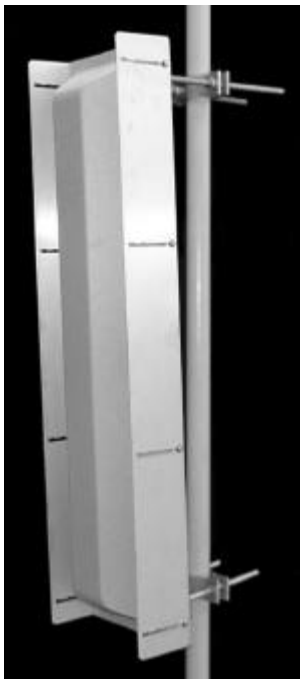
Note: If an advance replacement is sent and the returned antenna found to have no fault, the customer will be invoiced for the new replacement and will incur the freight to have the antenr returned to them.

Products

TA-700 Series	698-806 MHz
TA-800 Series	806-960 MHz
TA-900 Series	901-940 MHz
TA-1400 Series	1425-1535 MHz
TA-1800 Series	1850-1990 MHz
TA-1880 Series	1880-1930 MHz
TA-2100 Series	2150-2700 MHz
TA-2300 Series	2300-2500 MHz
TA-2400 Series	2400-2483 MHz
TA-2500 Series	2485-2690 MHz
TA-3400 Series	3400-3700 MHz
TA-4900 Series	4940-4990 MHz
TA-5200 Series	5250-5875 MHz
TA-5400 Series	5470-5875 MHz
TA-5700 Series	5725-5875 MHz

TA-703 Adjustable Sector

698 - 806 MHz



The TA-703 is a medium gain field adjustable sector for use in the 698-806 MHz licensed band. The patented side panel design allows the user to choose a 65, 90, or 110 degree azimuth pattern to optimize coverage. The excellent front to back ratio and side lobe reduction minimizes inter-sector interference. The robust design and versatility ensure superior performance and weatherability.

Electrical Specifications

Frequency Range: 698 - 806 MHz
Gain: 13 dBi (11dBd) @ 65º, 12 dBi (10dBd) @ 90º
11 dBi (9dBd) @ 110º
VSWR: 1.5:1 max.
Front to Back Ratio: 22dB@65º, 20dB@90º
18dB@110º
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 65, 90, 110 degrees
E-Plane Beamwidth: 21 degrees
Cross Pol. Discrimination: 25 dB typical
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

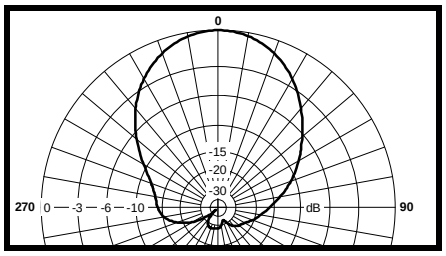
Mechanical Specifications

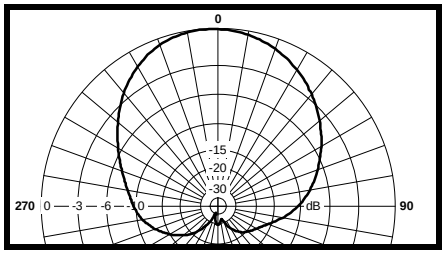
Length: 48 in. (1220 mm)
Width: 13 in. (330 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 35 lb. (15.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 269 lb. (122.1 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

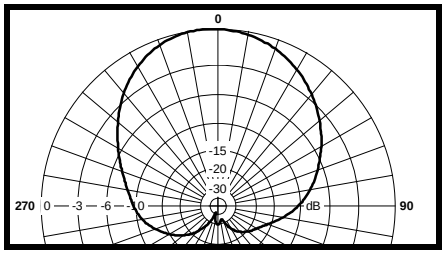
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

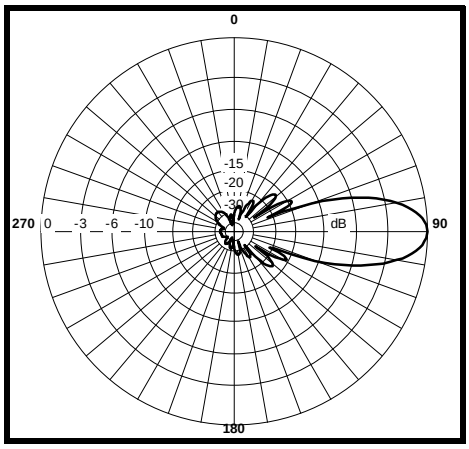
H-Plane







E-Plane



TA-711 Adjustable Sector

698-806 MHz

The TA-711 is a high gain field adjustable sector for use in the 698-806 MHz licensed band. The patented adjustable side panel design allows the user to choose a 65, 90, or 120 degree azimuth pattern to easily optimize sectoral coverage, while the excellent front to back ratio and side lobe reduction minimizes possible inter-sector interference. The extremely robust design and versatility ensure superior performance and weatherability.

Electrical Specifications

Frequency Range: 698-806 MHz
Gain: 13.75 dBd @ 65°, 12.75 dBd @ 90°
12.25 dBd @ 120º
VSWR: 1.5:1
Front to Back Ratio: 25dB@65º&90º, 20dB@120º
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 65, 90, 120 degrees
E-Plane Beamwidth: 10 degrees
Cross Pol. Discrimination: 25 dB typical
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

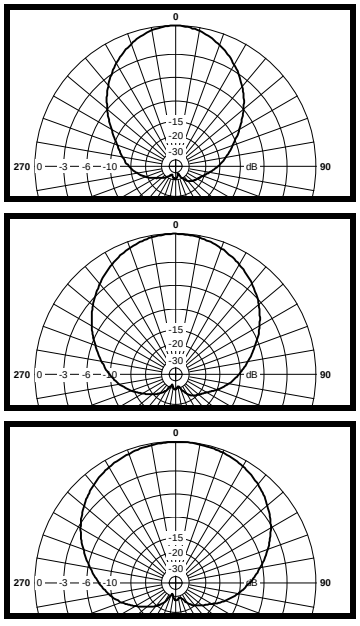
Mechanical Specifications

Length: 96 in. (2438 mm)
Width: 13 in. (330 mm)
Depth: 8.0 in. (203 mm)
Weight (incl. Clamps): 62 lb. (28 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 538 lb. (244 kg)
Mechanical Tilt: 0 - 6 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

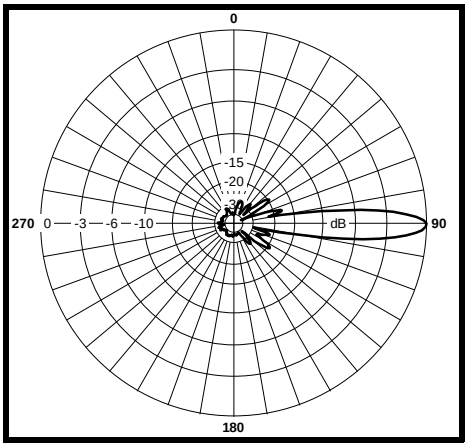
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-803 Adjustable Sector

806-896, 824-896, 890-960 MHz

The TA-803 adjustable sector is a broadband dipole array, enclosed in an aluminum base with an ASA UV stabilized radome for superior performance and weatherability. Extremely low side lobes, an adjustable azimuth pattern and up to 15 degrees of mechanical downtilt make this a remarkably versatile antenna.

Electrical Specifications

Frequency Range: 806-896, 824-896, 890-960 MHz
Gain: 12.5 dBd @ 60°, 11 dBd @ 90°
10.75 dBd @ 105°,10.5 dBd @ 120°
VSWR: 1.5:1 max. 1.35:1 typical
Front to Back Ratio: 25 dB min. 30 dB typical
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 60, 90, 105, 120 degrees
E-Plane Beamwidth: 18 degrees
Electrical Downtilt: 0°, 4°, 6°, 8°, 10°, 18°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

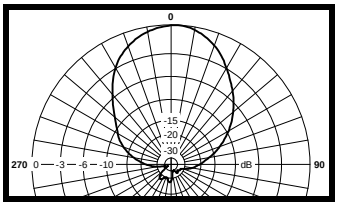
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 13 in. (330 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 34 lb. (15.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 269 lb. (122.1 kg)
Mechanical Tilt: 0 - 15 degrees (w/ TMC-104)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

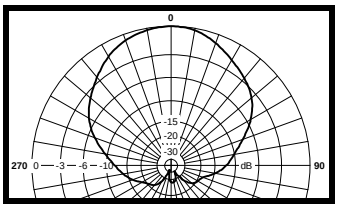
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

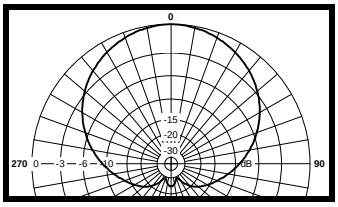
H-Plane



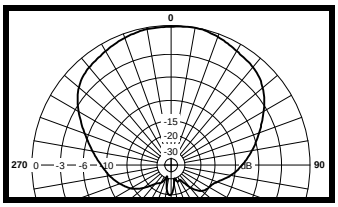
60°



90°

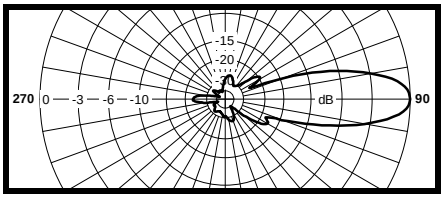


105°

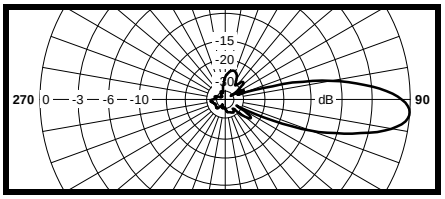


120°

E-Plane



T0



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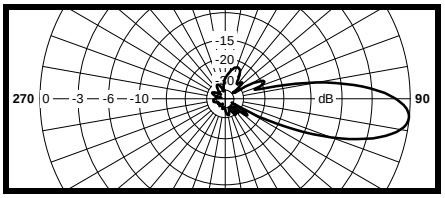
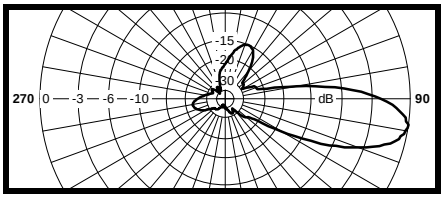


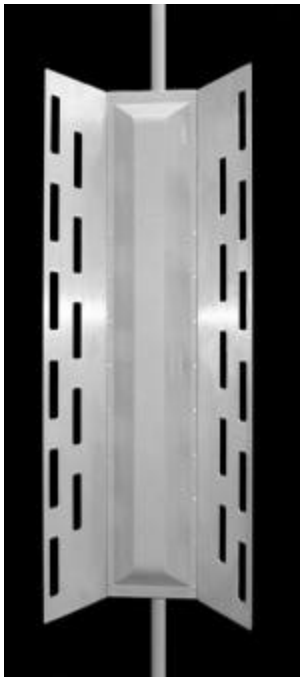
T6



T10

TA-803-33 Sector

806-896, 824-896, 890-960 MHz



The TA-803-33 sector is a fixed pattern version of the TA-803 adjustable sector. It is enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance. Extremely low side lobes and up to 15 degrees of mechanical downtilt make this antenna very useful for narrow coverage applications such as CDMA systems where interference between sites can be a particular problem.

Electrical Specifications

Frequency Range: 806-896, 824-896, 890-960 MHz
Gain: 15 dBd
VSWR: 1.5:1 max. 1.35:1 typical
Front to Back Ratio: 30 dB min.
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 33 degrees
E-Plane Beamwidth: 18 degrees
Electrical Downtilt: 0°, 4°, 6°, 8°, 10°, 18°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

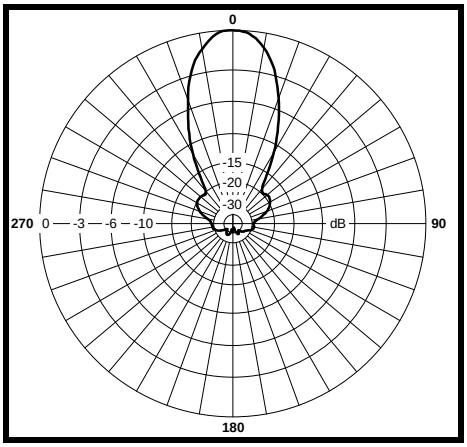
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 29.6 in. (751.8 mm)
Depth: 12 in. (305 mm)
Weight (incl. Clamps): 43 lb. (19.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 580 lb. (263 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

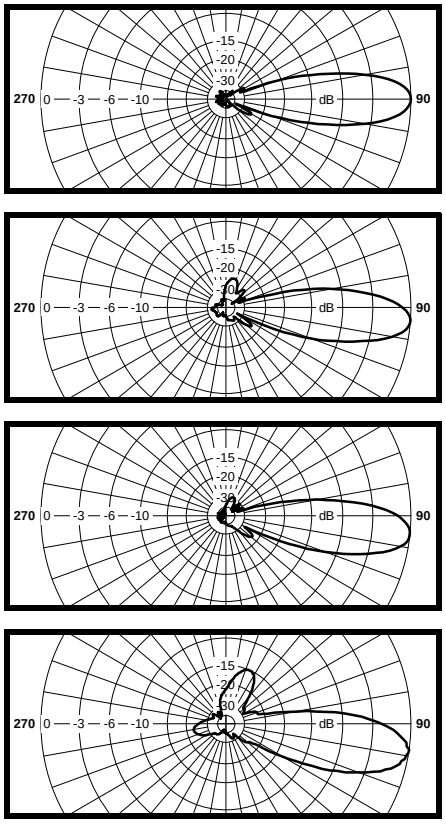
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-803-45 Sector

806-896, 824-896, 890-960 MHz

The TA-803-45 sector is a fixed pattern version of the TA-803 adjustable sector. It is enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance. Extremely low side lobes and up to 15 degrees of mechanical downtilt make this antenna very useful for narrow coverage applications such as CDMA systems where interference between sites can be a particular problem.

Electrical Specifications

Frequency Range: 806-896, 824-896, 890-960 MHz
Gain: 14 dBd
VSWR: 1.5:1 max. 1.35:1 typical
Front to Back Ratio: 30 dB min.
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 18 degrees
Electrical Downtilt: 0°, 4°, 6°, 8°, 10°, 18°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

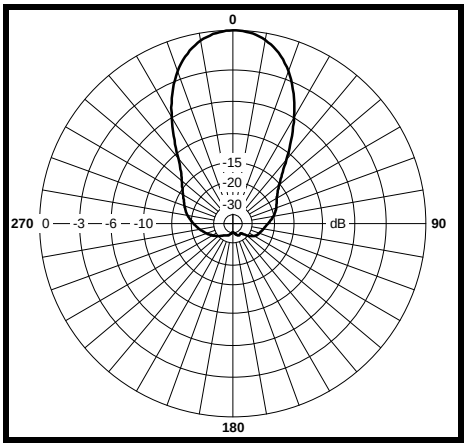
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 19 in. (483 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 36 lb. (16.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 396 lb. (180 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

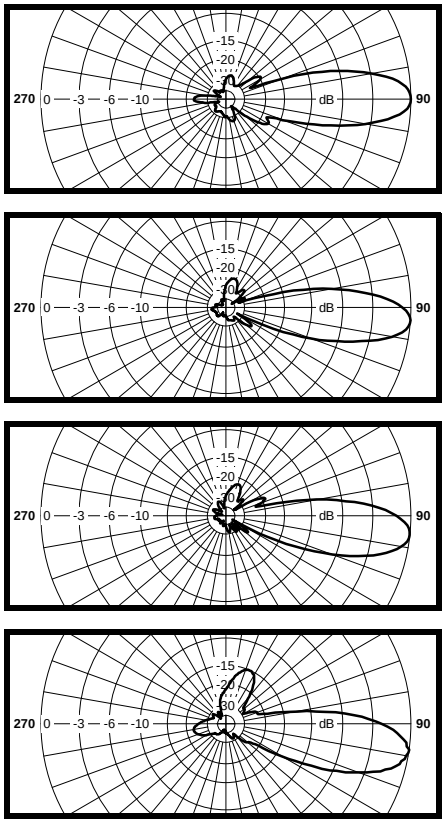
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-807 Dual Band Directional Panel

824-896 / 1850-1990 MHz

The TA-807 is a dual band vertically or horizontally polarized directional panel antenna. The antenna consists of two dipole arrays and a cross band coupler enclosed in a UV stabilized ASA radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 824-896 / 1850-1990 MHz
Gain: 7.5 +/- 0.5 dBd @ 824-896 MHz
16.5 +/- 0.5 dBi @ 1850-1990 MHz
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min. / 28 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 60° @ 824-896 MHz
21° @ 1850-1990 MHz
E-Plane Beamwidth: 64° @ 824-896 MHz
22° @ 1850-1990 MHz
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

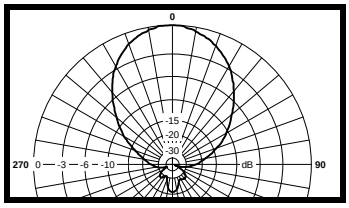
Mechanical Specifications

Length: 18 in. (457 mm)
Width: 18 in. (457 mm)
Depth: 4.5 in. (114 mm)
Weight (incl. Clamps): 12 lb. (5.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 140 lb. (63.6 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1 - 3.5 in. (25.4 - 88.9 mm)

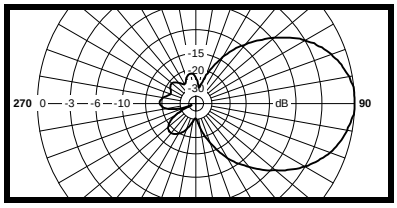
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

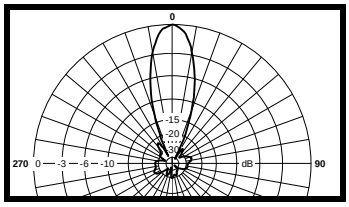
H-Plane @ 824-896 MHz



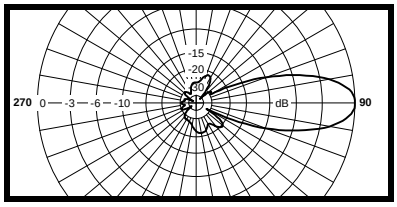
E-Plane @ 824-896 MHz



H-Plane @ 1850-1990 MHz

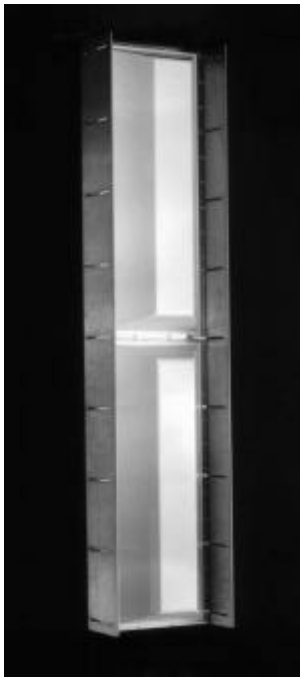


E-Plane @ 1850-1990 MHz



TA-811 Adjustable Sector

806-896, 824-896, 890-960 MHz



The TA-811 adjustable sector is a high gain broadband dipole array enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance and weatherability. Extremely low side lobes, an adjustable azimuth pattern and up to 6 degrees of mechanical downtilt make this a remarkably versatile antenna.

Electrical Specifications

Frequency Range: 806-896, 824-896, 890-960 MHz
Gain: 15.5 dBd @ 60°, 14 dBd @ 90°
13.75 dBd @ 105°, 13.5 dBd @ 120°
VSWR: 1.5:1 max. 1.35:1 typ.
Front to Back Ratio: 25 dB min. 30 dB typ.
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 60, 90, 105, 120 degrees
E-Plane Beamwidth: 8.5 degrees
Electrical Downtilt: 0°, 2°, 4°, 5°, 6°, 10°, 13°, 15°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

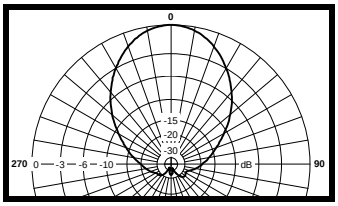
Mechanical Specifications

Length: 96 in. (2438 mm)
Width: 13 in. (330 mm)
Depth: 8.0 in. (203 mm)
Weight (incl. Clamps): 62 lb. (28 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 538 lb. (244 kg)
Mechanical Tilt: 0 - 6 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

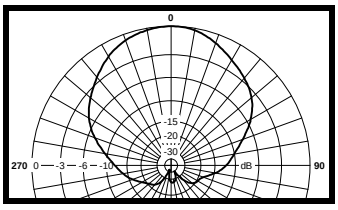
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

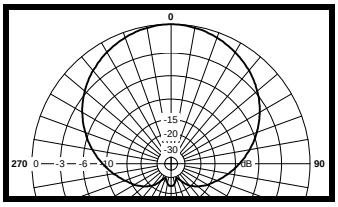
H-Plane



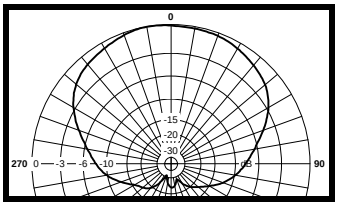
60°



90°

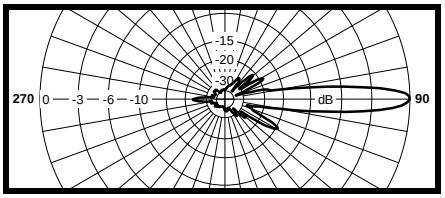


105°

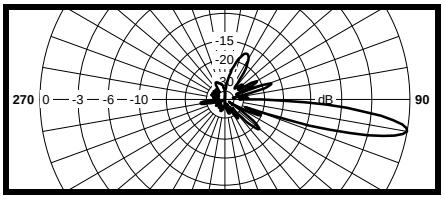


120°

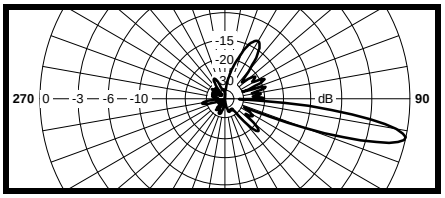
E-Plane



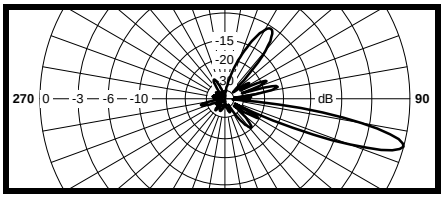
T0



T10



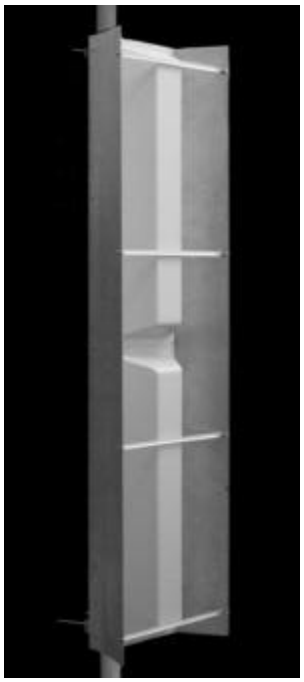
T13



T15

TA-811-33 Sector

806-896, 824-896, 890-960 MHz



The TA-811-33 is a fixed pattern version of the TA-811 adjustable sector. It is enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance and weatherability. Extremely low side lobes and up to 15 degrees of electrical downtilt make this a remarkably versatile antenna.

Electrical Specifications

Frequency Range: 806-896, 824-896, 890-960 MHz
Gain: 17 dBd @ 33°
VSWR: 1.5:1 max. 1.35:1 typical
Front to Back Ratio: 25 dB min. 30 dB typical
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 33 degrees
E-Plane Beamwidth: 8.5 degrees
Electrical Downtilt: 0°, 2°, 4°, 5°, 6°, 10°, 13°, 15°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

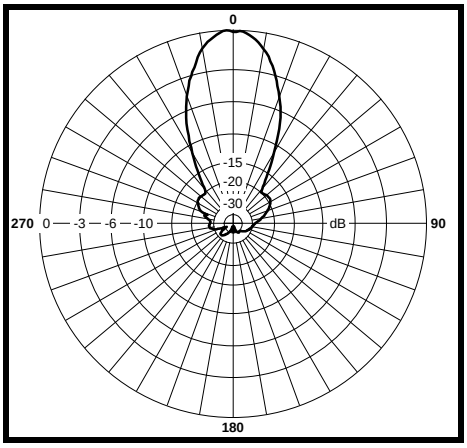
Mechanical Specifications

Length: 96 in. (2438 mm)
Width: 30 in. (762 mm)
Depth: 13 in. (330 mm)
Weight (incl. Clamps): 72 lb. (33 kg)
Rated Wind Velocity: 125 mph (201 km/h)
Hor. Thrust at rated wind: 1121 lb. (508 kg)
Mechanical Tilt: 0 degrees fixed
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

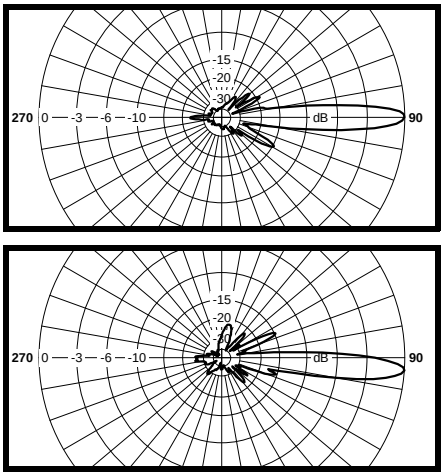
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG and EDZ steel

H-Plane

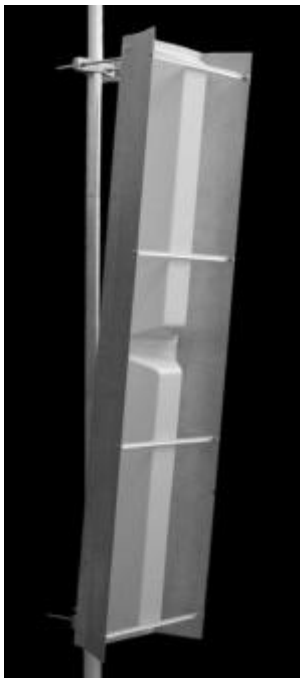


E-Plane



TA-811-45 Sector

806-896, 824-896, 890-960 MHz



The TA-811-45 is a fixed pattern version of the TA-811 adjustable sector. It is enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance and weatherability. Extremely low side lobes and up to 6 degrees of mechanical downtilt make this a remarkably versatile antenna.

Electrical Specifications

Frequency Range: 806-896, 824-896, 890-960 MHz
Gain: 17 dBd @ 45°
VSWR: 1.5:1 max. 1.35:1 typical
Front to Back Ratio: 25 dB min. 30 dB typical
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 8.5 degrees
Electrical Downtilt: 0°, 2°, 4°, 5°, 6°, 10°, 13°, 15°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

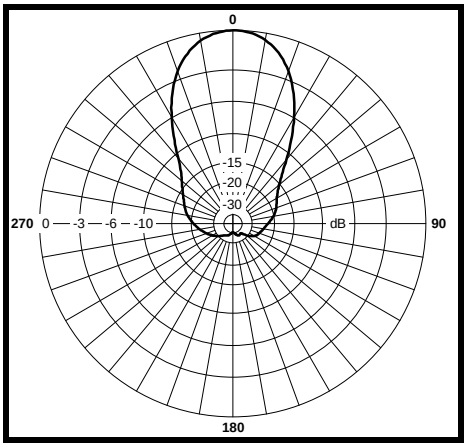
Mechanical Specifications

Length: 96 in. (2438 mm)
Width: 19 in. (483 mm)
Depth: 8.2 in. (208 mm)
Weight (incl. Clamps): 62 lb. (28 kg)
Rated Wind Velocity: 120 mph (193 km/h)
Hor. Thrust at rated wind: 792 lb. (359 kg)
Mechanical Tilt: 0 - 6 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

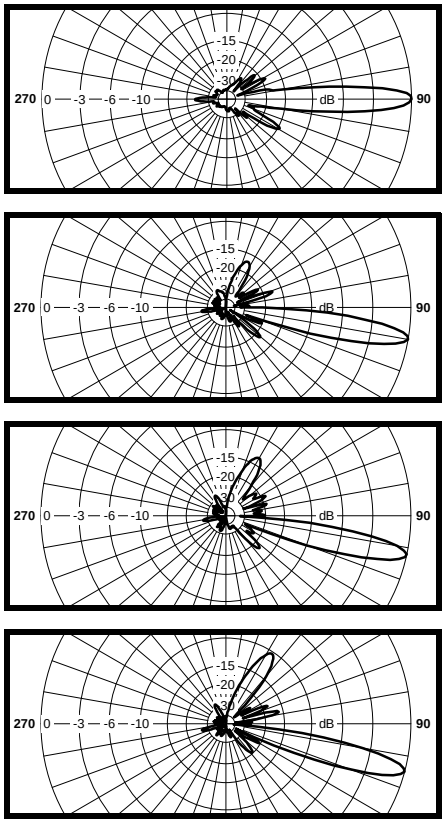
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane

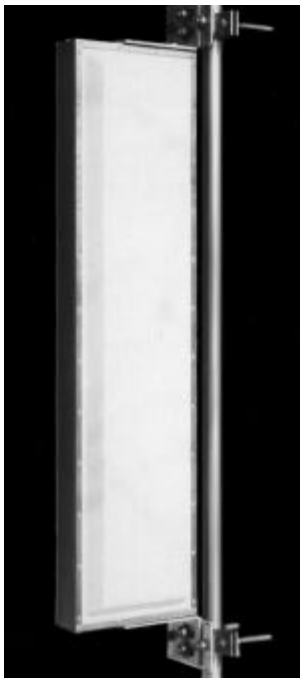


E-Plane



TA-814 Bidirectional

806-866, 824-896, 890-960 MHz



The TA-814 bidirectional antenna is used to provide coverage along service corridors where omnidirectional coverage is either not required or not desired. The antenna mounts to the side of a tower or pipe, therefore eliminating the need for tower top space. Low side lobes and up to 6 degrees of electrical downtilt makes this antenna useful for many applications.

Electrical Specifications

Frequency Range: 806-866, 824-896, 890-960 MHz
Gain: 9.5 dBd bidirectional
VSWR: 1.5:1 max. 1.35:1 typical
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 60 degrees each side
E-Plane Beamwidth: 18 degrees
Electrical_Downtilt: 0, 4, 6 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

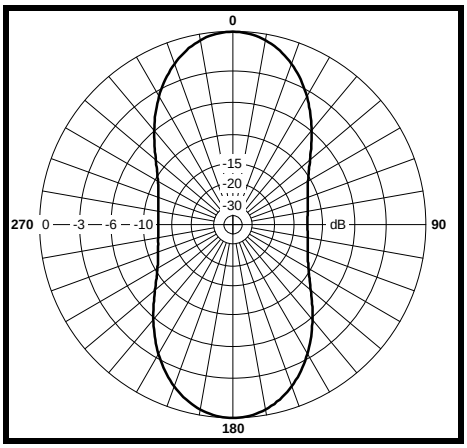
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 6 in. (152 mm)
Depth: 13 in. (330 mm)
Weight (incl. Clamps): 40 lb. (18.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 270 lb. (123 kg)
Mechanical Tilt: 0 - 6 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

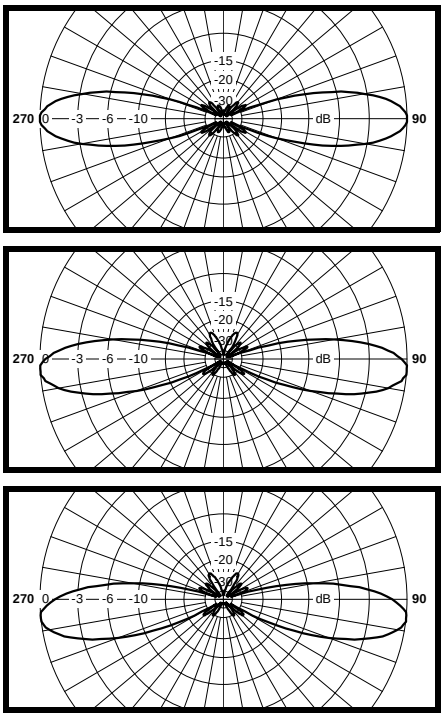
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane

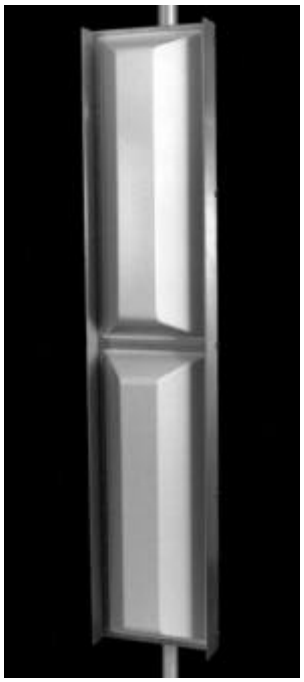


E-Plane



TA-817 Adjustable Sector

806-866, 824-896, 890-960 MHz



The TA-817 adjustable sector is a broadband dipole array enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance and weatherability. Low side lobes, an adjustable azimuth pattern and up to 8 degrees of mechanical downtilt make this a remarkably versatile antenna.

Electrical Specifications

Frequency Range: 806-866, 824-896, 890-960 MHz
Gain: 14.5 dBd @ 60°, 13 dBd @ 90°
12.75 dBd @ 105°, 12.5 dBd @ 120°
VSWR: 1.5:1 max. 1.35:1 typical
Front to Back Ratio: 25 dB min. 30 dB typical
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 60, 90, 105, 120 degrees
E-Plane Beamwidth: 10 degrees
Electrical Downtilt: 0, 5 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

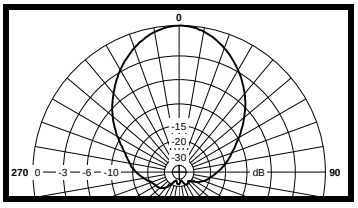
Mechanical Specifications

Length: 76 in. (1930 mm)
Width: 13 in. (330 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 45 lb. (20.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 429 lb. (195 kg)
Mechanical Tilt: 0 - 8 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

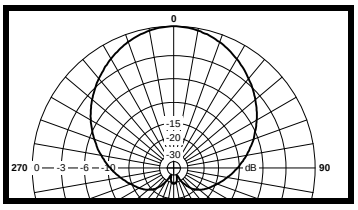
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

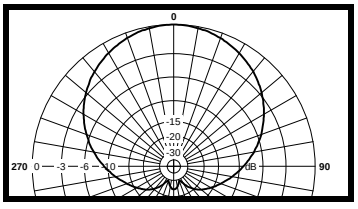
H-Plane



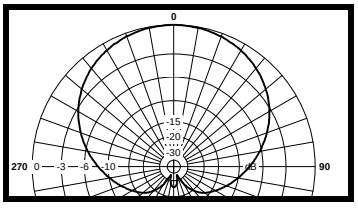
60°



90°

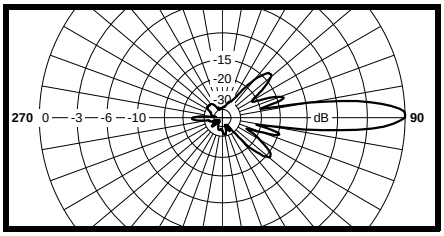


105°

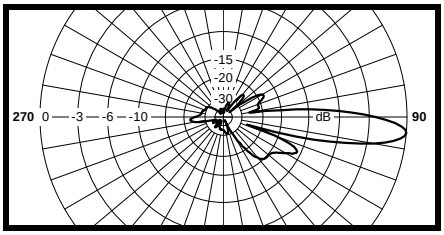


120°

E-Plane



T0



T5

TA-824-4-45 Dual Polarized Sector

806-866, 824-896, 872-960 MHz

The TA-824-4-45 is a dual slant polarized 45 degree sectoral antenna. The antenna is intended for use where multiple antennas may not be practical. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 806-866, 824-896, 872-960 MHz
Gain: 2 x 14 dBd co-polarized
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Dual slant +45 and -45
Power Rating: 500 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 19 degrees
Electrical Downtilt: 0°,4°,6°,8°,9°,12°,15°,18°
Port to Port Isolation: 30 dB
Impedance: 50 ohms nominal
Termination: 2 x N female (7/16 optional)

Mechanical Specifications

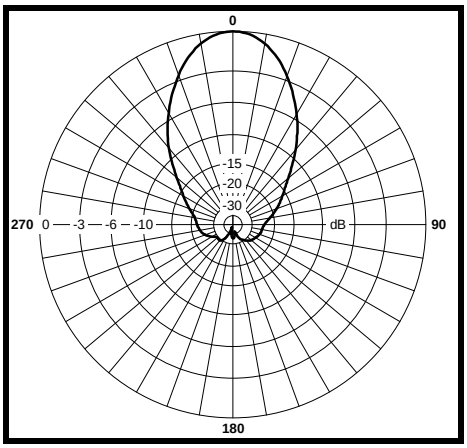
Length: 48 in. (1220 mm)
Width: 19.25 in. (489 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 36 lb. (16.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 401 lb. (182 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

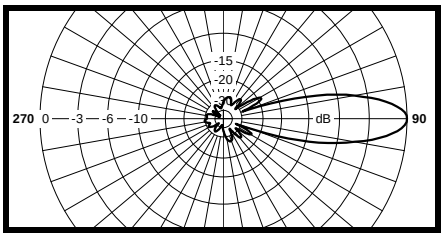
Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

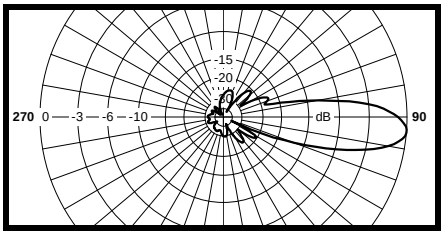
Typical mid band values. (For details , contact factory)

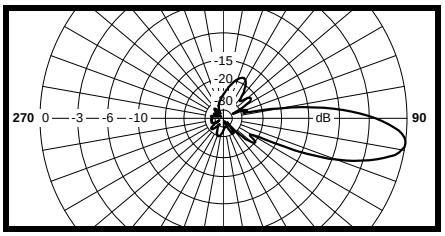
Azimuth



Elevation

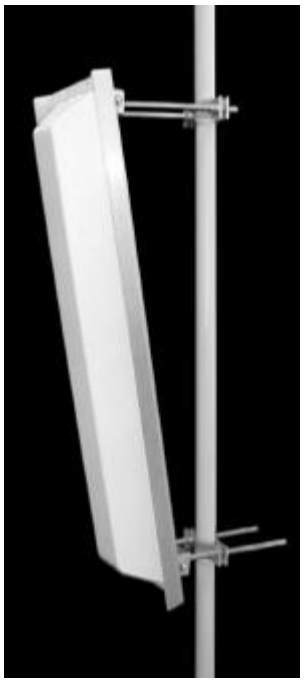






TA-824-4-65 Dual Polarized Sector

824-896, 872-960 MHz



The TA-824-4-65 is a dual slant polarized 65 degree sectoral antenna. The antenna is intended for use where multiple antennas may not be practical. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 824-896, 872-960 MHz
Gain: 2 x 12.5 dBd co-polarized
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Dual slant +45 and -45
Power Rating: 500 Watts
H-Plane Beamwidth: 65 degrees
E-Plane Beamwidth: 19 degrees
Electrical Downtilt: 0°,4°,6°,8°,9°,12°,15°,18°
Port to Port Isolation: 30 dB
Impedance: 50 ohms nominal
Termination: 2 x N female (7/16 optional)

Mechanical Specifications

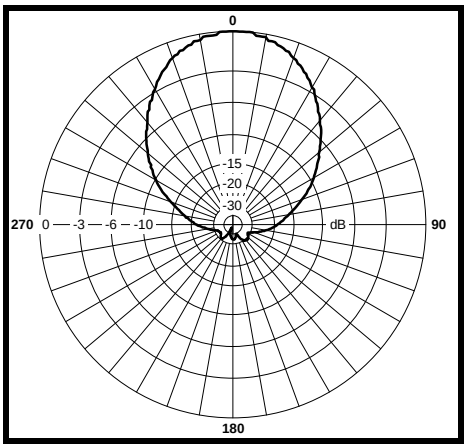
Length: 48 in. (1220 mm)
Width: 13 in. (330 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 27 lb. (12.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 270 lb. (123 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

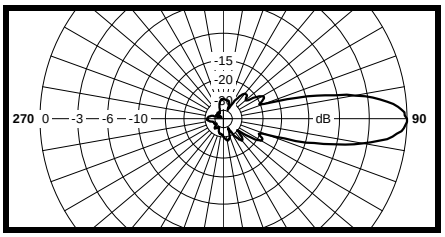
Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

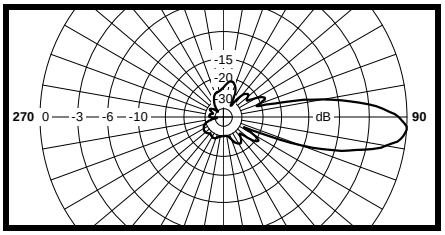
Typical mid band values. (For details , contact factory)

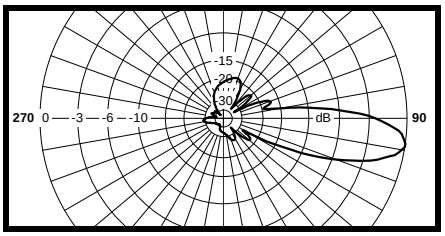
Azimuth



Elevation







TA-824-4-90 Dual Polarized Sector

824-896 MHz

The TA-824-4-90 is a dual slant polarized 90 degree sectoral antenna. The antenna is intended for use where multiple antennas may not be practical. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 824-896 MHz
Gain: 2 x 10.5 +/- 0.5 dBd co-polarized
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Dual slant +45 and -45
Power Rating: 500 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 18 degrees
Electrical Downtilt: 0°, 4°, 6°
Port to Port Isolation: 25 dB
Impedance: 50 ohms nominal
Termination: 2 x N female (7/16 optional)

Mechanical Specifications

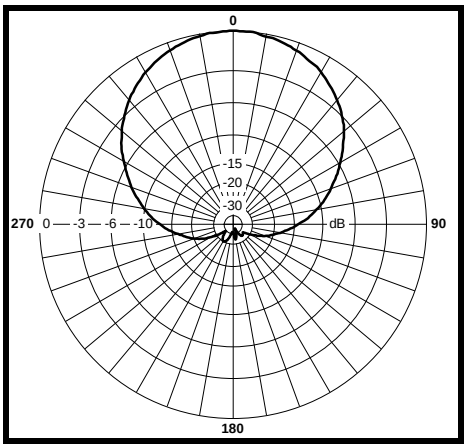
Length: 48 in. (1220 mm)
Width: 13.5 in. (343 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 29 lb. (13.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 274 lb. (124.2 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

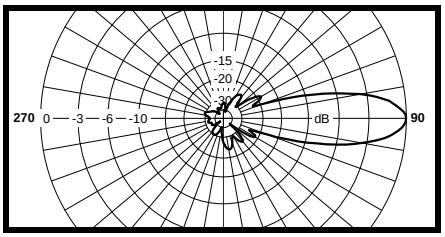
Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

Typical mid band values. (For details , contact factory)

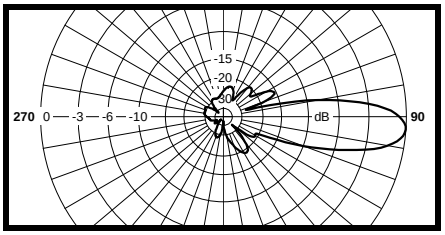
Azimuth



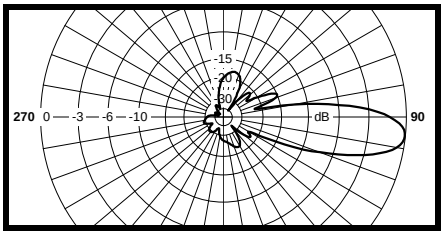
Elevation



T0



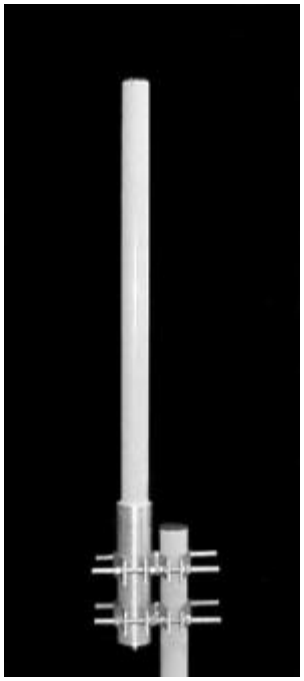
T4



T6

TA-853 Dual Band Omnidirectional

824 - 896 / 1850 - 1990 MHz



The TA-853 is a vertically polarized 2.5 dBd / 7.5 dBi dual band omnidirectional antenna. The antenna consists of two dipole arrays and a cross band coupler enclosed in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 824 - 896 / 1850 - 1990 MHz
Gain: 2.5 dBd (824-896 MHz)
7.5 dBi (1850-1990 MHz)
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 65 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 35 degrees (824-896 MHz)
16 degrees (1850-1990 MHz)
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

Mechanical Specifications

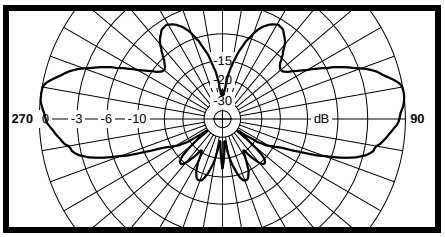
Length:
Radiating Section: 42 in. (1067 mm)
Base Section: 12 in. (305 mm)
Total: 54 in. (1372 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 17 lb. (7.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 35 lb. (16 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

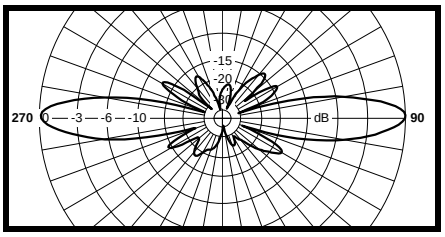
Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: EDZ steel

E-Plane

824-896 MHz



1850-1990 MHz



TA-925 Panel

902-928 MHz

The TA-925 is a vertically or horizontally polarized directional panel antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 902-928 MHz
Gain: 7.8 +/- 0.5 dBd
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB
Polarization: Vertical or Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 55 degrees
E-Plane Beamwidth: 58 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

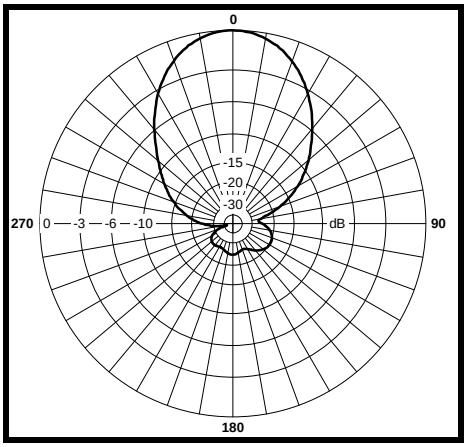
Mechanical Specifications

Length: 12 in. (302.8 mm)
Width: 12 in. (302.8 mm)
Depth: 2.7 in. (68.6 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 63 lb. (28.6 kg)
Mechanical Tilt: 0 +/- 10 degrees
Mounting (O.D.): 1.75 - 3.25 in. (44.5 - 85 mm)

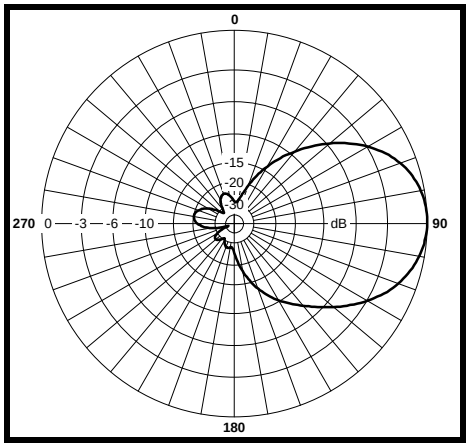
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-926H-4-120 Sector

902-928 MHz

The TA-926H-4-120 is a horizontally polarized 120 degree sectoral antenna. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 902-928 MHz
Gain: 9 dBd +/- 0.5 dBd
VSWR: 1.5:1 max.
Front to Back Ratio: 18 dB min
Polarization: Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 19°
E-Plane Beamwidth: 115°
Cross Pol. Discrimination: 20 dB min
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

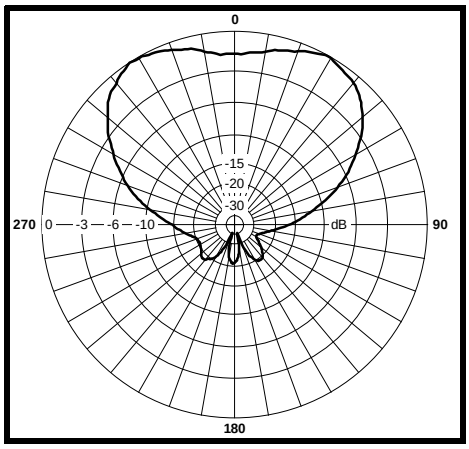
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 21 in. (533.4 mm)
Depth: 8 in (203 mm)
Weight (incl. Clamps): 29 lb. (13.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 437 lb. (198.2 kg)
Mechanical Tilt: 0 - 13 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

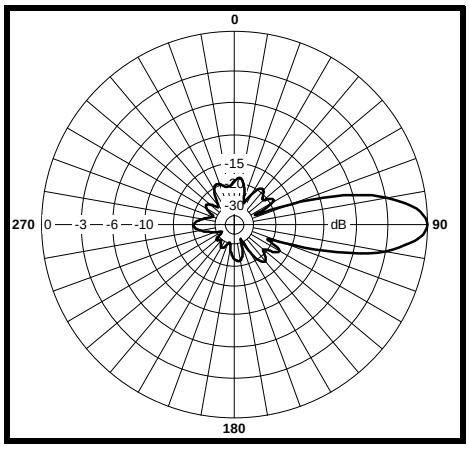
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: EDZ steel

E-Plane

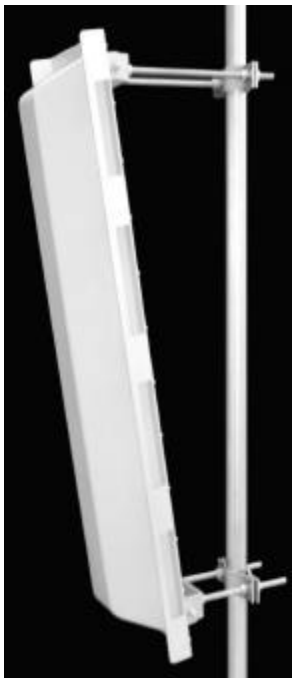


H-Plane



TA-926VH-4-90 Dual Polarized Sector

902-928 MHz



The TA-926VH-4-90 is a dual polarized 90 degree sectoral antenna. The antenna incorporates separate vertically and horizontally polarized sections which can be used separately or simultaneously dependent upon transceiver characteristics. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 902-928 MHz
Gain: 2 x 10.0 dBd co-polarized
VSWR: 1.5:1 max.
Front to Back Ratio: Vpol:20 dB min./Hpol:15 dB min.
Polarization: Dual Vpol & Hpol
Power Rating: 200 Watts
Azimuth Beamwidth: Vpol: 90° / Hpol: 85°
Elevation Beamwidth: Vpol: 17° / Hpol: 19°
Cross Pol. Discrimination: 20 dB min.
Electrical Downtilt: 0°
Port to Port Isolation: 30 dB typ.
Impedance: 50 ohms nominal
Termination: 2 x N female

Typical mid band values. (For details , contact factory)

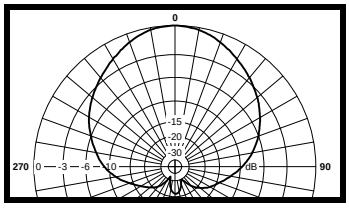
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 13.5 in. (343 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 25 lb. (11.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 280 lb. (127.0 kg)
Mechanical Tilt: 0 - 13 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

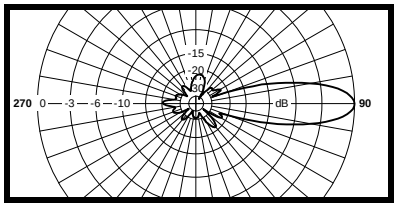
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

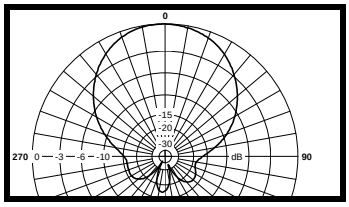
Vpol Azimuth



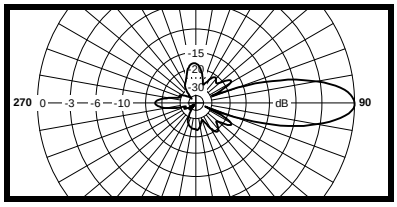
Vpol Elevation



Hpol Azimuth



Hpol Elevation



TA-926VH-4-120 Dual Polarized Sector

902-928 MHz

The TA-926VH-4-120 is a dual polarized 120 degree sectoral antenna. The antenna incorporates separate vertically and horizontally polarized sections which can be used separately or simultaneously dependent upon transceiver characteristics. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 902-928 MHz
Gain: 2 x 9 dBd co-polarized
VSWR: 1.5:1 max.
Front to Back Ratio: Vpol:20 dB min./Hpol:19 dB min.
Polarization: Dual Vpol & Hpol
Power Rating: 200 Watts
Azimuth Beamwidth: Vpol: 120° / Hpol: 115°
Elevation Beamwidth: Vpol: 17° / Hpol: 19°
Cross Pol. Discrimination: 20 dB min.
Electrical Downtilt: 0°
Port to Port Isolation: 30 dB typ.
Impedance: 50 ohms nominal
Termination: 2 x N female

Typical mid band values. (For details , contact factory)

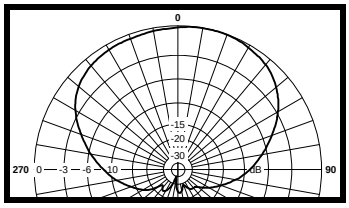
Mechanical Specifications

Length: 48 in. (1220 mm)
Width: 21 in. (533.4 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 29 lb. (13.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 438 lb (198.7 kg)
Mechanical Tilt: 0 - 13 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

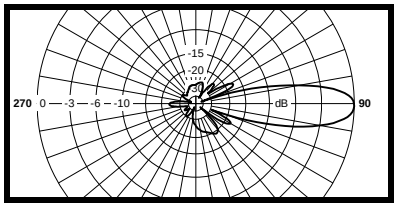
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: EDZ steel

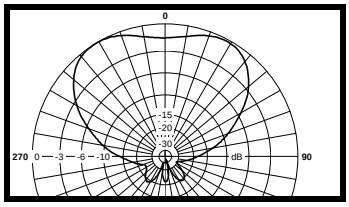
Vpol Azimuth



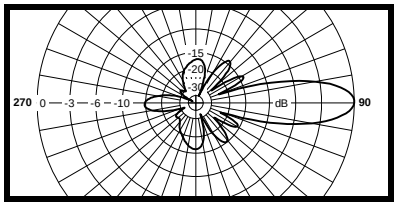
Vpol Elevation



Hpol Azimuth



Hpol Elevation



TA-926VH-8-120 Dual Polarized Sector

902-928 MHz

The TA-926VH-8-120 is a dual polarized 120 degree sectoral antenna. The antenna incorporates separate vertically and horizontally polarized sections which can be used separately or simultaneously dependent upon transceiver characteristics. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 902-928 MHz
Gain: 2 x 11 dBd co-polarized
VSWR: 1.5:1 max.
Front to Back Ratio: Vpol:20 dB min./Hpol: 16.5 dB min.
Polarization: Dual Vpol & Hpol
Power Rating: 200 Watts
Azimuth Beamwidth: Vpol: 120° / Hpol: 115°
Elevation Beamwidth: Vpol: 10° / Hpol: 11°
Cross Pol. Discrimination: 20 dB
Electrical Downtilt: 0°
Port to Port Isolation: 30 dB
Impedance: 50 ohms nominal
Termination: 2 x N female

Typical mid band values. (For details , contact factory)

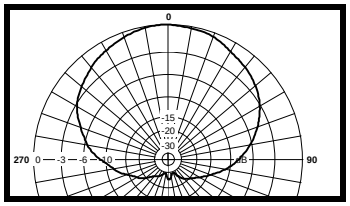
Mechanical Specifications

Length: 76 in. (1930 mm)
Width: 19.6 in. (498 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 50 lb. (22.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 645 lb. (292.5 kg)
Mechanical Tilt: 0 - 7.5 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 102 mm)

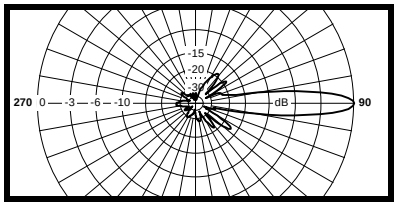
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: EDZ steel

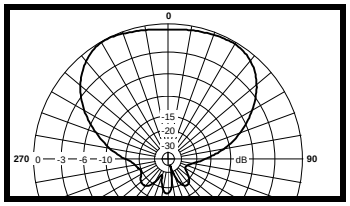
Vpol Azimuth



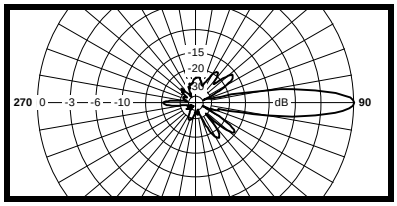
Vpol Elevation



Hpol Azimuth

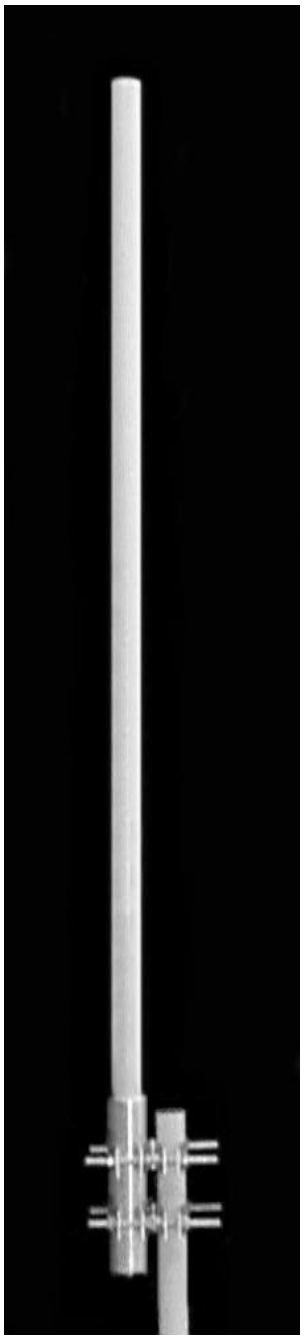


Hpol Elevation



TA-952 Omnidirectional

901-940 MHz



The TA-952 is a 9.5 dBd omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 901-940 MHz
Gain: 9.5 dBd
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 500 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 5 +/- 0.5 degrees
Cross Pol. Discrimination: 20 dB
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

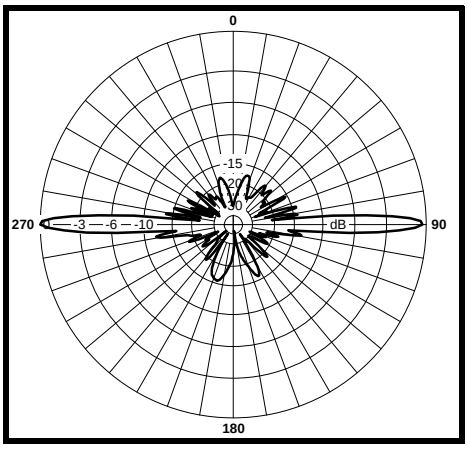
Mechanical Specifications

Length: 184 in. (4674 mm)
Diameter: 2.25 in. (57.2 mm)
Weight (Incl. Clamps): 30 lb. (13.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 118 lb. (53.6 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Copper
Radome: Gray UV stabilized ASA
Clamps: HDG steel

E-Plane



TA-1403 Panel

1425-1535 MHz

The TA-1403 is a medium gain 11 dBi panel antenna. The antenna consists of a broadband dipole enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 11 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 250 Watts
H-Plane Beamwidth: 48 degrees
E-Plane Beamwidth: 52 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

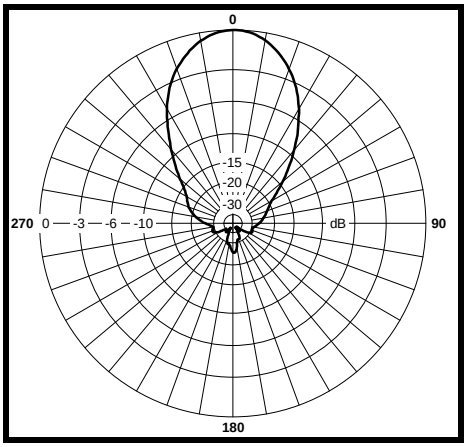
Mechanical Specifications

Length: 14 in. (356 mm)
Width: 12 in. (305 mm)
Depth: 4 in. (102 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 73 lb. (33.2 kg)
Mounting (O.D.): 1.9 in. (48.3 mm)

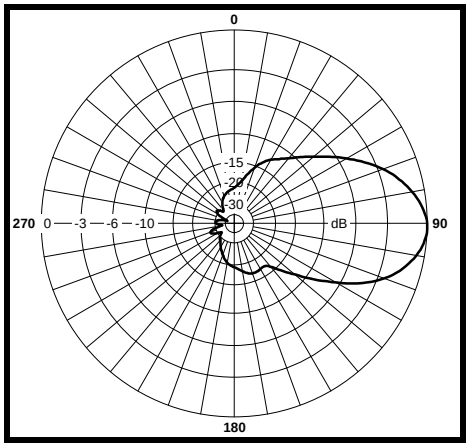
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-1404 Adjustable Sector

1425-1535 MHz

The TA-1404 is a vertically polarized adjustable sectoral antenna. The antenna consists of a broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 15 dBi @ 60°, 13 dBi @ 90°
12 dBi @ 120°, 10.5 dBi @ 160°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min. 25 dB typical
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 16 degrees
Electrical Downtilt: 0, 2, 4, 6 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

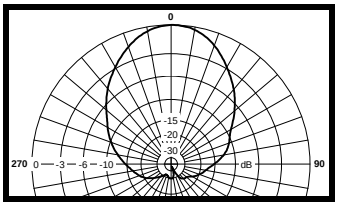
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 8 in. (203 mm)
Depth: 6 in. (152 mm)
Weight (incl. Clamps): 25 lb. (11.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 139 lb. (63 kg)
Mechanical Tilt: 0 - 15 degrees (optional)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

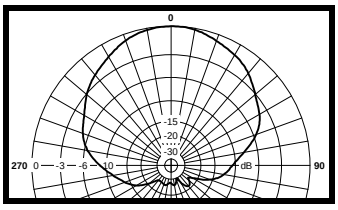
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

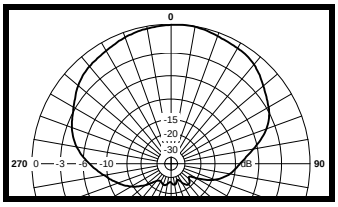
H-Plane



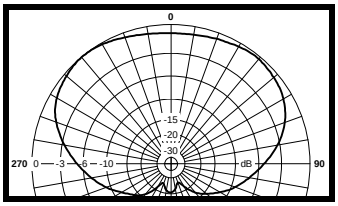
60°



90°

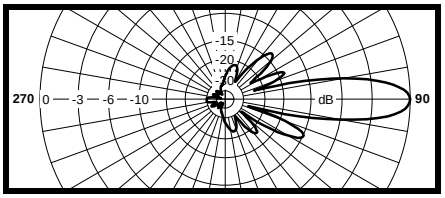


120°

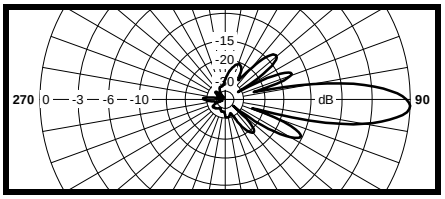


160°

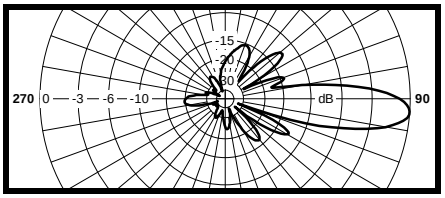
E-Plane



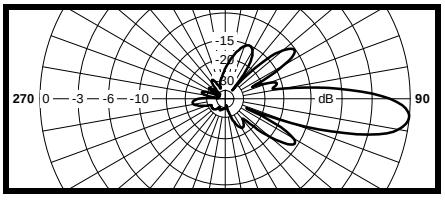
T0



T2



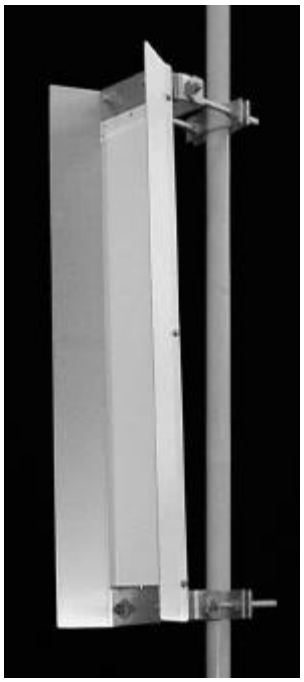
T4



T6

TA-1404-40 Sector

1425-1535 MHz



The TA-1404-40 is a vertically polarized 40 degree sectoral antenna. The antenna consists of a broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 16.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min. 25 typical
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 40 degrees
E-Plane Beamwidth: 16 degrees
Electrical Downtilt: 0, 2, 4, 6 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

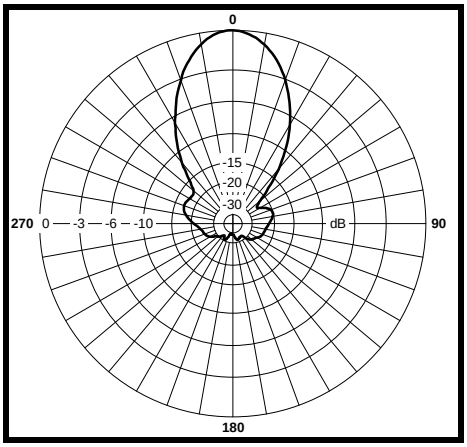
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 11.5 in. (292 mm)
Depth: 6 in. (152 mm)
Weight (incl. Clamps): 25 lb. (11.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 199 lb. (90 kg)
Mechanical Tilt: 0 - 15 degrees (optional)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

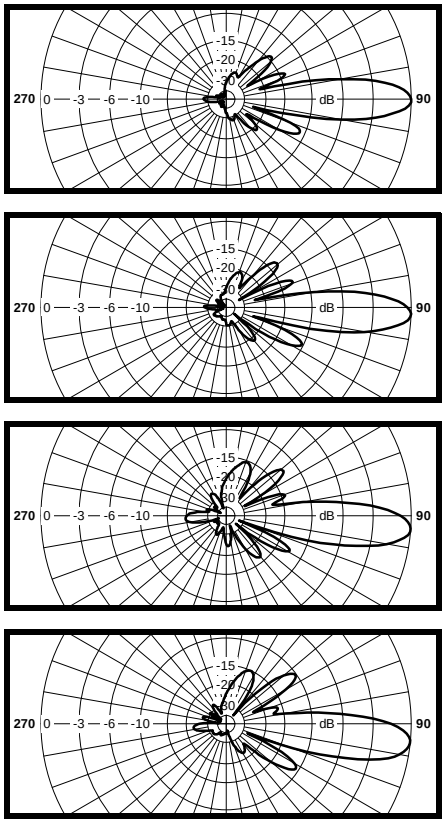
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-1406 Panel

1425-1535 MHz

The TA-1406 is a medium gain vertically or horizontally polarized panel antenna. The antenna was designed specifically for rural point to multipoint systems and as such has relatively wide beamwidths. It is designed for severe weather conditions. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 17 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 30 degrees
E-Plane Beamwidth: 18 degrees
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

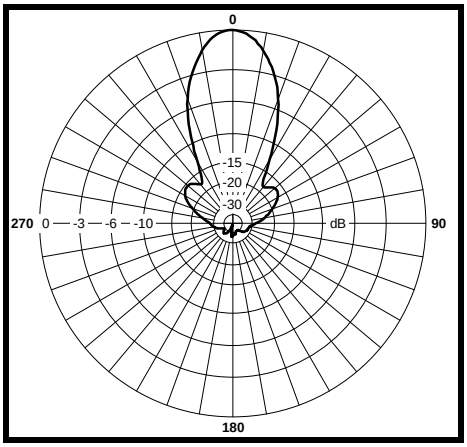
Mechanical Specifications

Length: 24 in. (610 mm)
Width: 17 in. (432 mm)
Depth: 5.5 in. (140 mm)
Weight (incl. Clamps): 10 lb. (4.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 159 lb. (72 kg)
Mounting (O.D.): 1.9 in. (48.3 mm)

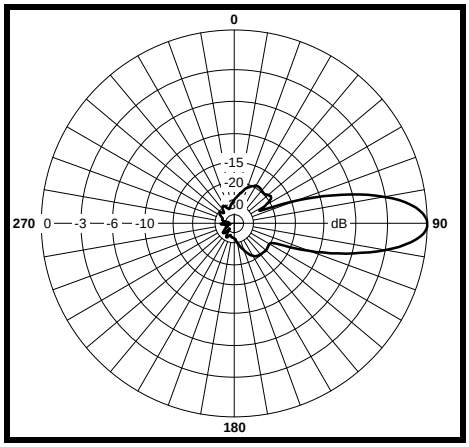
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane

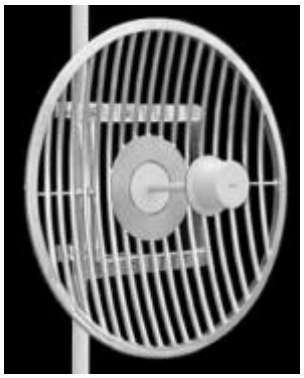


E-Plane



TA-1436 Grid Parabolic

1425-1535 MHz



The TA-1436 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is extremely rugged and is designed to provide superior performance in any conditions. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 21 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 250 Watts
H-Plane Beamwidth: 14 degrees
E-Plane Beamwidth: 16 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

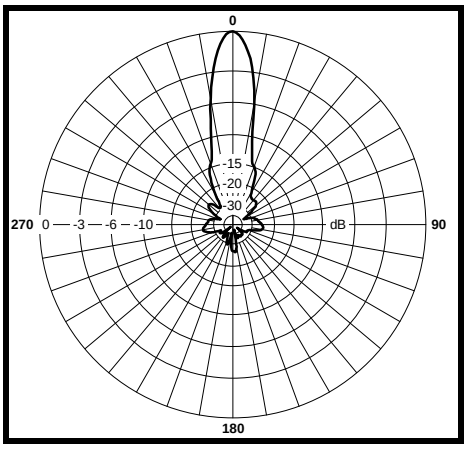
Mechanical Specifications

Diameter: 38.5 in. (978 mm)
Weight (Incl. clamps): 40 lb. (18.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 177 lb. (80.5 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

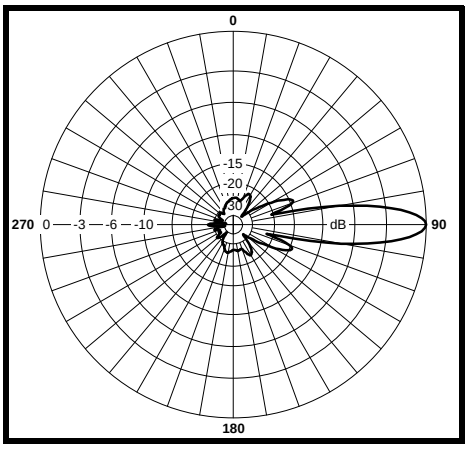
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane

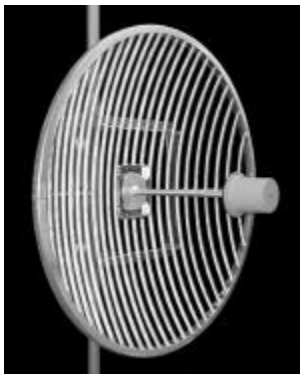


E-Plane



TA-1448 Grid Parabolic

1425-1535 MHz



The TA-1448 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is extremely rugged and is designed to provide superior performance in any conditions. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 23.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 250 Watts
H-Plane Beamwidth: 11 degrees
E-Plane Beamwidth: 12 degrees
Cross Pol. Discrimination: 30 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

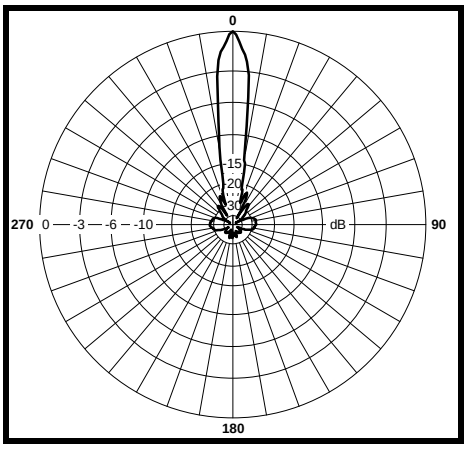
Mechanical Specifications

Diameter: 50.5 in. (1283 mm)
Weight (Incl. clamps): 50 lb. (22.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 304 lb. (138.2 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

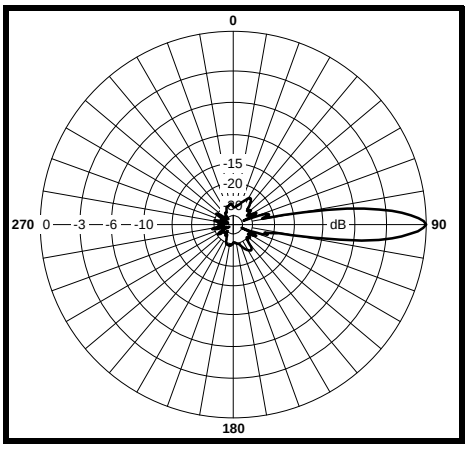
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane

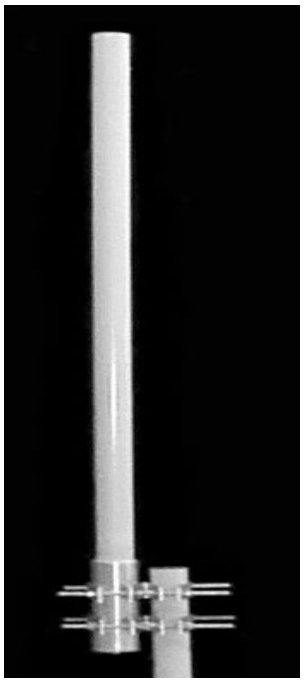


E-Plane



TA-1450 Omnidirectional

1425-1535 MHz



The TA-1450 is a 10 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Electrical Downtilt: 0, 2, 4 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

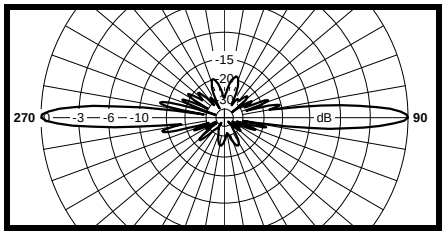
Mechanical Specifications

Length: 67.5 in. (1714.5 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 18 lb. (8.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 48 lb. (21.8 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

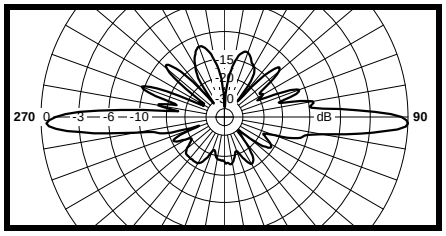
Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

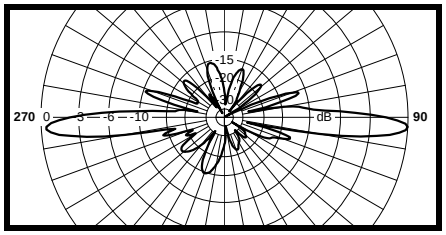
E-Plane



T0



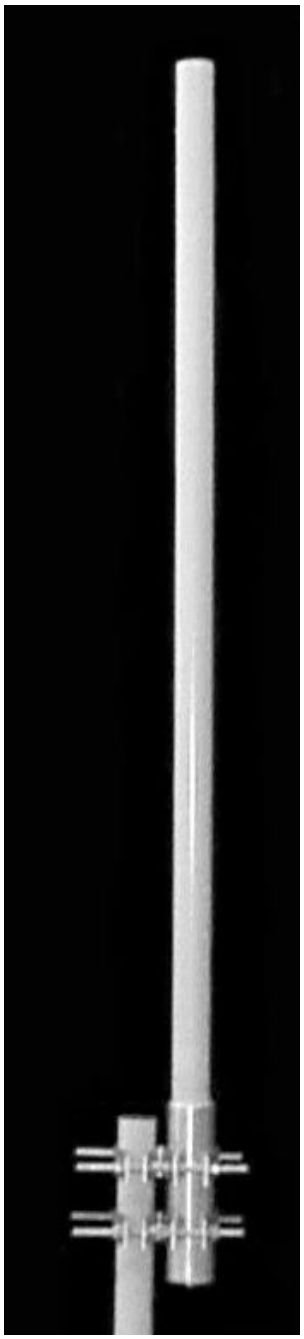
T2



T4

TA-1450-2 Omnidirectional

1425-1535 MHz



The TA-1450-2 is a 12 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 1425-1535 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 4 degrees
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

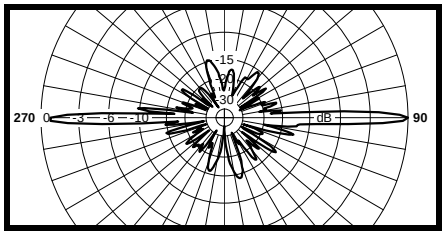
Mechanical Specifications

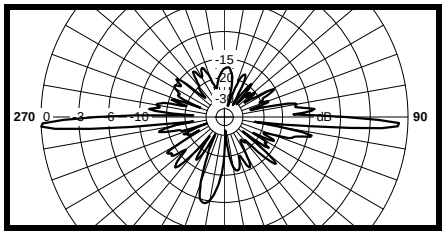
Length: 136 in. (3455 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 28 lb. (12.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 88 lb. (40 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

E-Plane





TA-807 Dual Band Directional Panel

824-896 / 1850-1990 MHz

The TA-807 is a dual band vertically or horizontally polarized directional panel antenna. The antenna consists of two dipole arrays and a cross band coupler enclosed in a UV stabilized ASA radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 824-896 / 1850-1990 MHz
Gain: 7.5 +/- 0.5 dBd @ 824-896 MHz
16.5 +/- 0.5 dBi @ 1850-1990 MHz
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min. / 28 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 60° @ 824-896 MHz
21° @ 1850-1990 MHz
E-Plane Beamwidth: 64° @ 824-896 MHz
22° @ 1850-1990 MHz
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

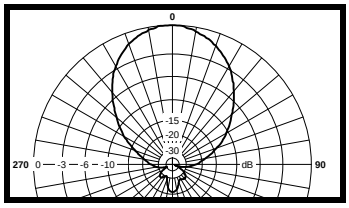
Mechanical Specifications

Length: 18 in. (457 mm)
Width: 18 in. (457 mm)
Depth: 4.5 in. (114 mm)
Weight (incl. Clamps): 12 lb. (5.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 140 lb. (63.6 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1 - 3.5 in. (25.4 - 88.9 mm)

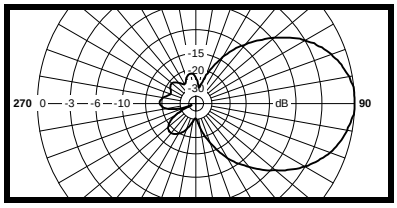
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

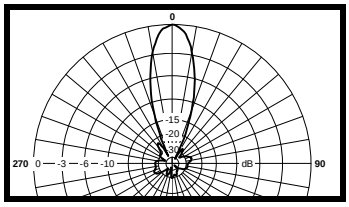
H-Plane @ 824-896 MHz



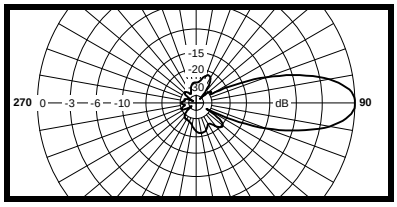
E-Plane @ 824-896 MHz



H-Plane @ 1850-1990 MHz

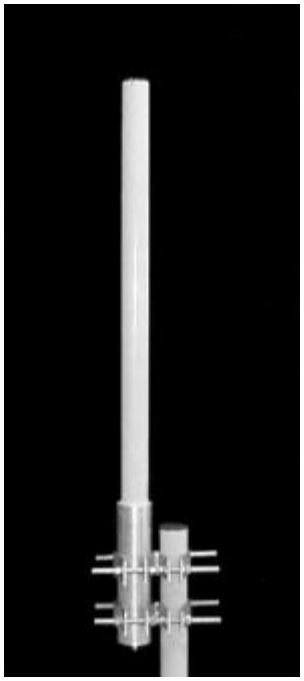


E-Plane @ 1850-1990 MHz



TA-853 Dual Band Omnidirectional

824 - 896 / 1850 - 1990 MHz



The TA-853 is a vertically polarized 2.5 dBd / 7.5 dBi dual band omnidirectional antenna. The antenna consists of two dipole arrays and a cross band coupler enclosed in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 824 - 896 / 1850 - 1990 MHz
Gain: 2.5 dBd (824-896 MHz)
7.5 dBi (1850-1990 MHz)
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 65 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 35 degrees (824-896 MHz)
16 degrees (1850-1990 MHz)
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

Mechanical Specifications

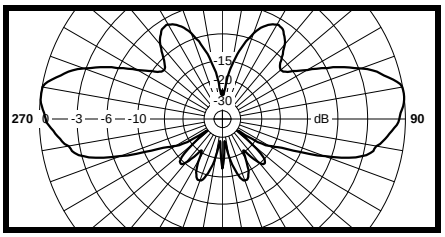
Length:
Radiating Section: 42 in. (1067 mm)
Base Section: 12 in. (305 mm)
Total: 54 in. (1372 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 17 lb. (7.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 35 lb. (16 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

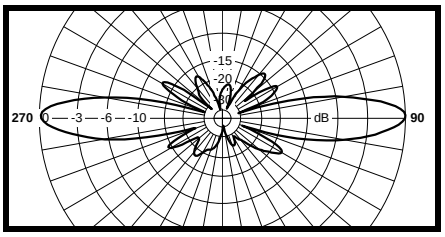
Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: EDZ steel

E-Plane

824-896 MHz

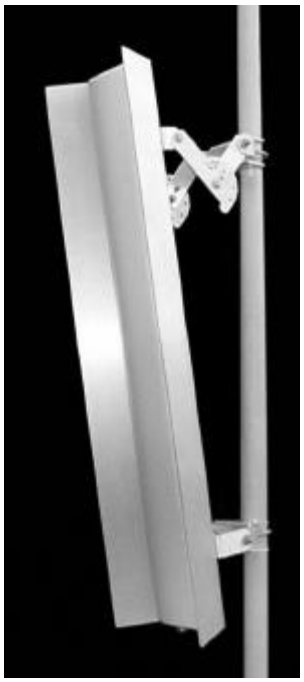


1850-1990 MHz



TA-1806-16-33 Sector

1850-1990 MHz



The TA-1806-16-33 is a vertically polarized 33 degree sectoral antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The use of 16 radiating elements allows for precise pattern control including upper sidelobe reduction and null fill. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 18.25 dBi
VSWR: 1.43:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 33 +/- 2.5 degrees
E-Plane Beamwidth: 7.8 +/- 1 degrees
Electrical Downtilt: 2, 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
3rd Order I.M. (2x20W): -147 dBc
Termination: 7/16 DIN female (N optional)

Typical mid band values. (For details , contact factory)

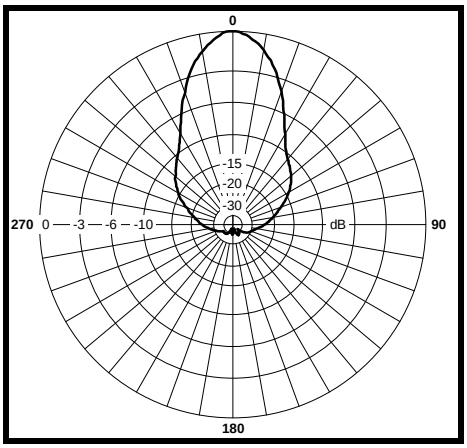
Mechanical Specifications

Length: 50 in. (1270 mm)
Width: 12.3 in. (312 mm)
Depth: 5.2 in. (133 mm)
Weight (incl. Clamps): 21 lb. (9.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 356 lb. (162 kg)
Mechanical Tilt: 0 - 15° (in 1° increments)
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

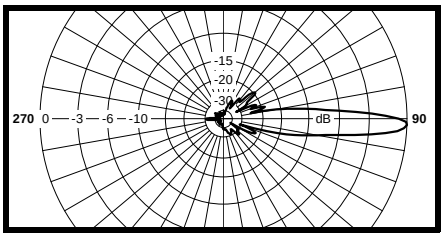
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

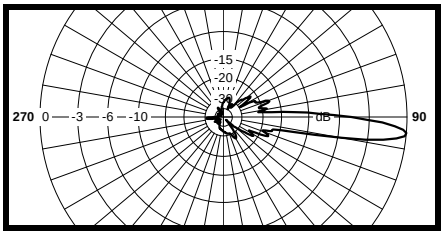
H-Plane



E-Plane



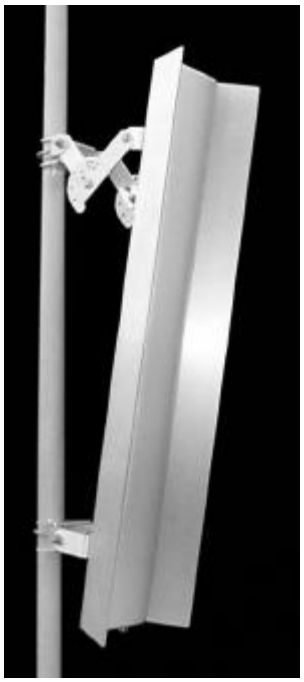
T2



T5

TA-1806-16-45 Sector

1850-1990 MHz



The TA-1806-16-45 is a vertically polarized 45 degree sectoral antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The use of 16 radiating elements allows for precise pattern control including upper sidelobe reduction and null fill. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 17 dBi
VSWR: 1.43:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 45 +/- 3 degrees
E-Plane Beamwidth: 7.8 +/- 1 degrees
Electrical Downtilt: 2, 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
3rd Order I.M. (2x20W): -147 dBc
Termination: 7/16 DIN female (N optional)

Typical mid band values. (For details , contact factory)

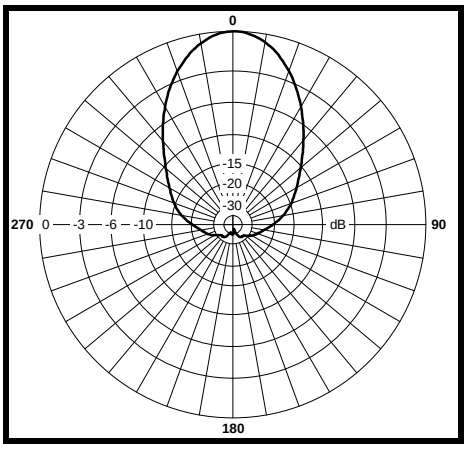
Mechanical Specifications

Length: 50 in. (1270 mm)
Width: 9.7 in. (246 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 19 lb. (8.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 280 lb. (127 kg)
Mechanical Tilt: 0 - 15° (in 1° increments)
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

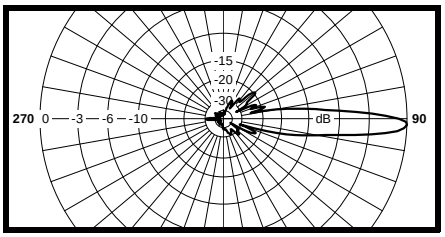
Materials

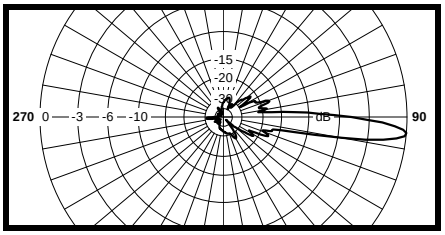
Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



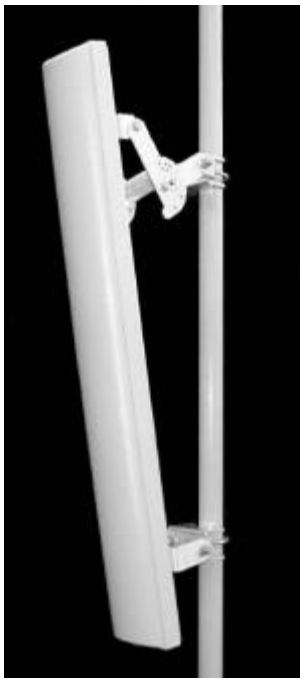
E-Plane





TA-1806-16-62 Sector

1850-1990 MHz



The TA-1806-16-62 is a vertically polarized 62 degree sectoral antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The use of 16 radiating elements allows for precise pattern control including upper sidelobe reduction and null fill. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 16.5 dBi
VSWR: 1.43:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 62 +/- 3 degrees
E-Plane Beamwidth: 7.8 +/- 1 degrees
Electrical Downtilt: 2, 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
3rd Order I.M. (2x20W): -147 dBc
Termination: 7/16 DIN female (N optional)

Typical mid band values. (For details , contact factory)

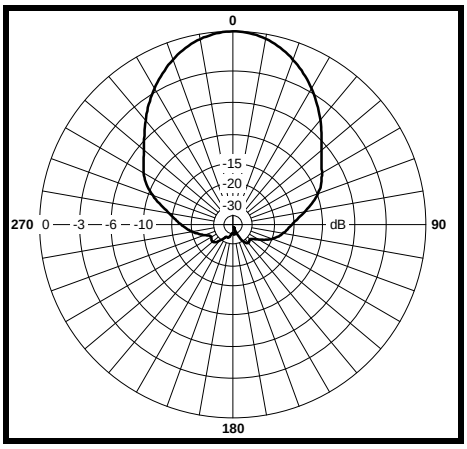
Mechanical Specifications

Length: 50 in. (1270 mm)
Width: 6.5 in. (165 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 14 lb. (6.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 141 lb. (64.1 kg)
Mechanical Tilt: 0 - 15° (in 1° increments)
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

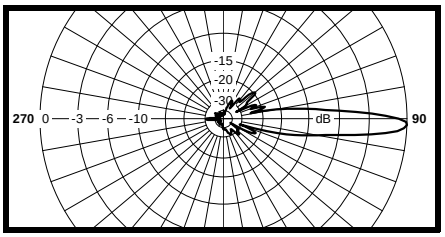
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

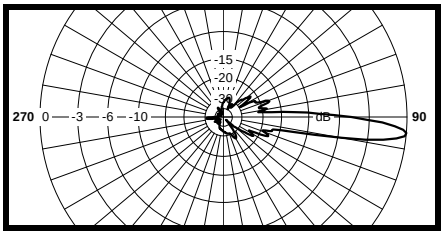
H-Plane



E-Plane



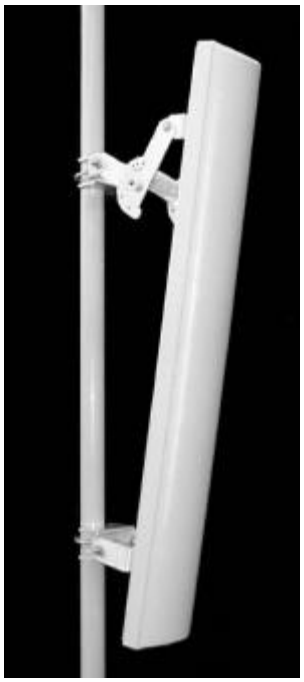
T2



T5

TA-1806-16-90 Sector

1850-1990 MHz



The TA-1806-16-90 is a vertically polarized 90 degree sectoral antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The use of 16 radiating elements allows for precise pattern control including upper sidelobe reduction and null fill. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 15 dBi
VSWR: 1.43:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 250 Watts
H-Plane Beamwidth: 90 +/- 3 degrees
E-Plane Beamwidth: 7.8 +/- 1 degrees
Electrical Downtilt: 2, 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
3rd Order I.M. (2x20W): -147 dBc
Termination: 7/16 DIN female (N optional)

Typical mid band values. (For details , contact factory)

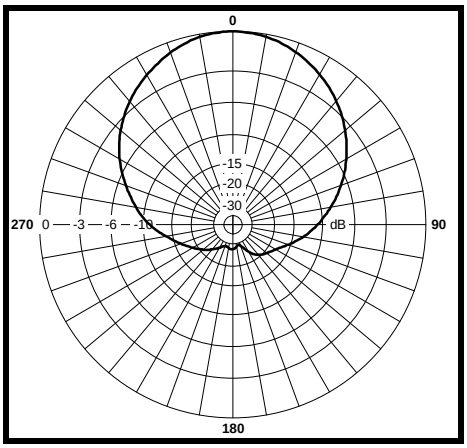
Mechanical Specifications

Length: 50 in. (1270 mm)
Width: 6.5 in. (165 mm)
Depth: 3.8 in. (96.5 mm)
Weight (incl. Clamps): 14 lb. (6.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 141 lb. (64.1 kg)
Mechanical Tilt: 0 - 15° (in 1° increments)
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

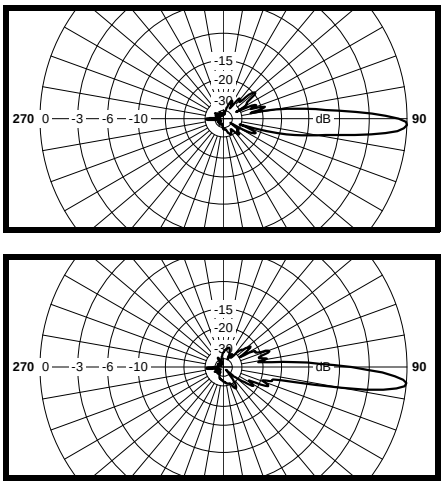
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

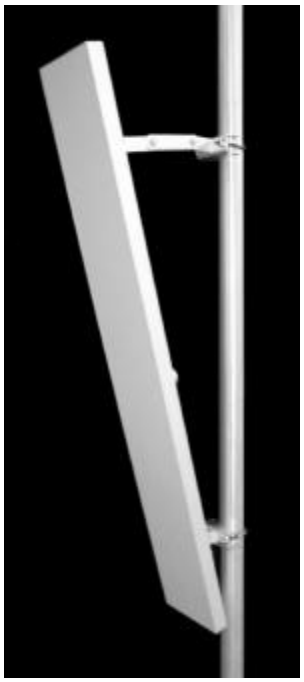


E-Plane



TA-1807-8-60 Dual Polarized Sector

1850-1990 MHz



The TA-1807-8-60 is a dual slant polarized 60 degree sectoral antenna. The antenna is intended for use where multiple antennas may not be practical. It consists of a broadband patch array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 17 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB
Polarization: +/- 45 degrees (slant)
Power Rating: 250 Watts
Azimuth Beamwidth: 60 degrees
Elevation Beamwidth: 7.5 degrees
Cross Pol. Discrimination: 15 dB min.
Electrical Downtilt: 0, 2, 5 degrees
Port to Port Isolation: 30 dB min.
3rd Order I.M. (2x20W): -147 dBc
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Mechanical Specifications

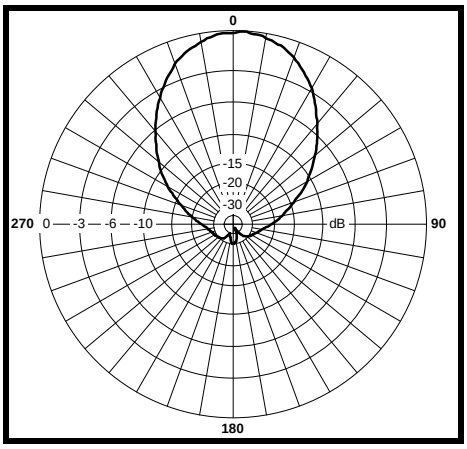
Length: 43 in. (1092 mm)
Width: 6 in. (152.4 mm)
Depth: 1.85 in. (46.9 mm)
Weight (incl. Clamps): 10 lb. (4.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 117 lb (53.1 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.90 - 4.5 in. (48 - 114 mm)

Materials

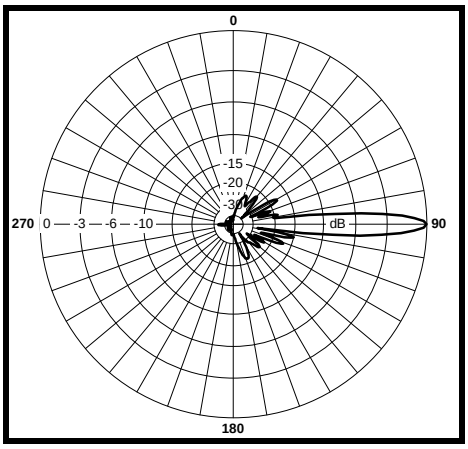
Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and steel

Typical mid band values. (For details , contact factory)

Azimuth

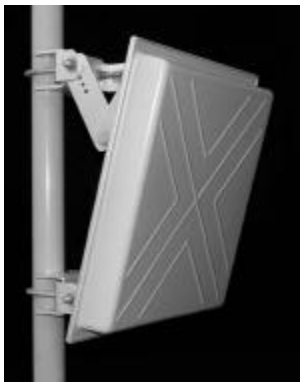


Elevation



TA-1809 Directional Panel

1850-1990 MHz



The TA-1809 consists of a printed broadband dipole array enclosed in an aluminum base with a UV stabilized ASA radome for superior weatherability. It was designed for applications such as PCS repeater sites which require medium gain and low sidelobes. It can be mounted for either vertical or horizontal polarization. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 18 dBi
VSWR: 1.5:1 max
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 250 Watts
H-Plane Beamwidth: 21 +/- 1 degrees
E-Plane Beamwidth: 22 +/- 1 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
3rd Order I.M. (2x20W): -147 dBc
Termination: 7/16 DIN female (N-optional)

Typical mid band values. (For details , contact factory)

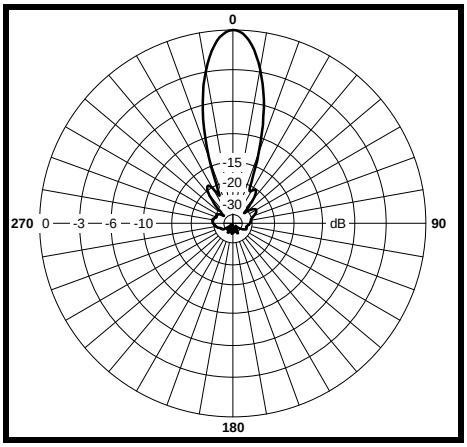
Mechanical Specifications

Length: 18 in. (457 mm)
Width: 18 in. (457 mm)
Depth: 2.25 in. (57 mm)
Weight (incl. Clamps): 11 lb. (5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 140 lb. (63.6 kg)
Mechanical Tilt: 0 - 15 degrees (optional)
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

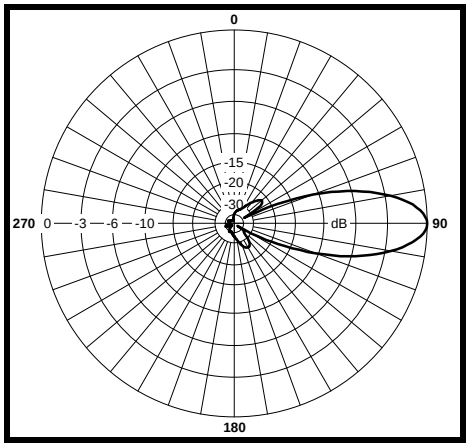
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

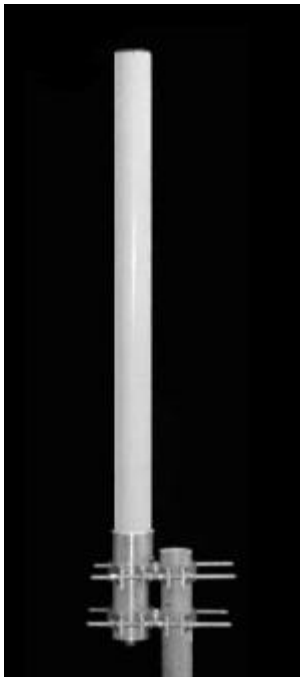


E-Plane



TA-1850 Omnidirectional

1850-1990 MHz



The TA-1850 is a 10 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Electrical Downtilt: 0, 2, 4 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

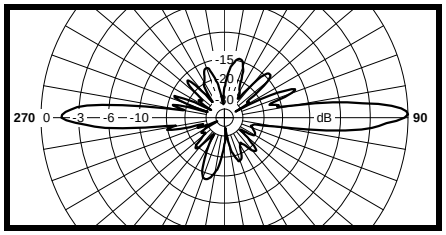
Mechanical Specifications

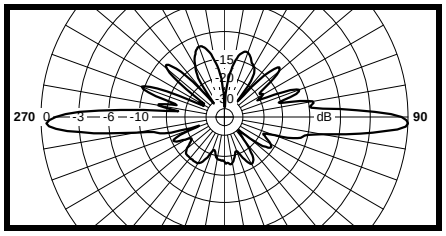
Length: 57 in. (1448 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 17 lb. (7.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 37 lb. (16.8 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

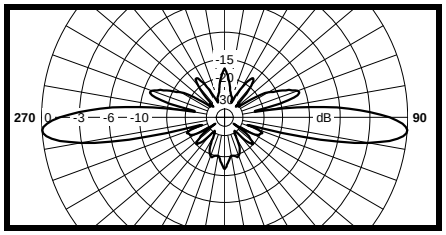
Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

E-Plane

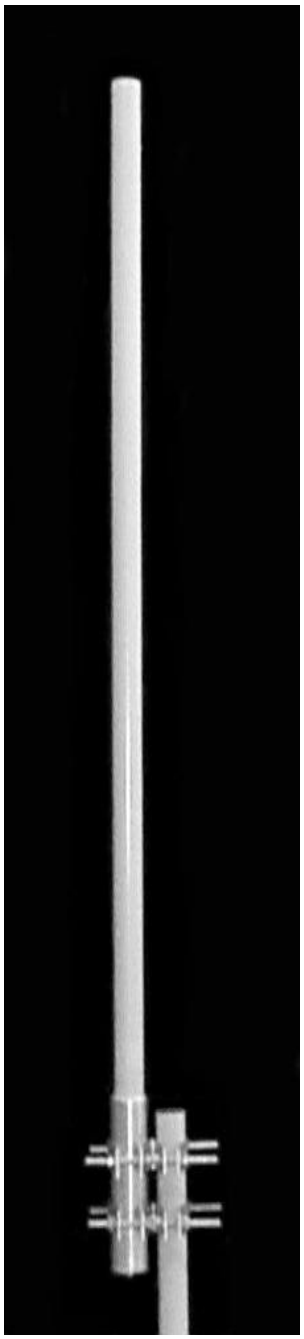






TA-1850-2 Omnidirectional

1850-1990 MHz



The TA-1850-2 is a 12 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 4 degrees
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

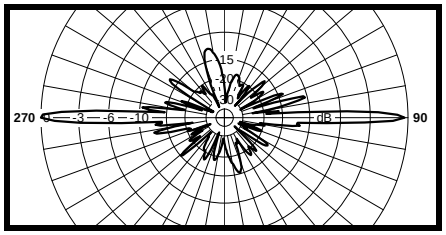
Mechanical Specifications

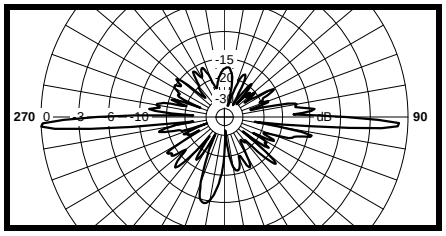
Length: 100.5 in. (2553 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 20 lb. (9.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 65 lb. (29.5 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

E-Plane





TA-1881-4-120 Sector

1880-1930 MHz

The TA-1881-4-120 is a vertically polarized 120 degree sectoral antenna designed for DECT and PCS applications requiring medium gain and a relatively broad vertical radiation pattern. The printed circuit radiating assembly and transmission lines are enclosed in an aluminum cavity with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1880-1930 MHz
Gain: 10.5 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 10 Watts
H-Plane Beamwidth: 120 degrees
E-Plane Beamwidth: 18 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

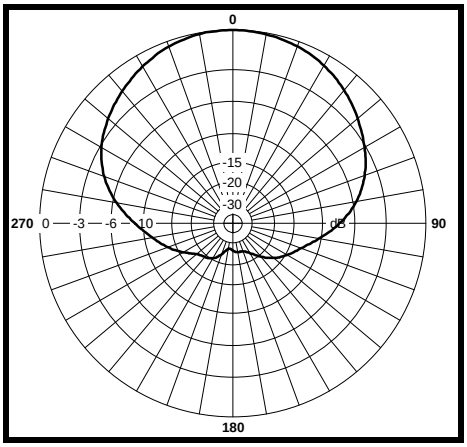
Mechanical Specifications

Length: 20.2 in. (513 mm)
Width: 4 in. (102 mm)
Depth: 3.6 in. (92 mm)
Weight (incl. Clamps): 3 lb. (1.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 35 lb. (15.9 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

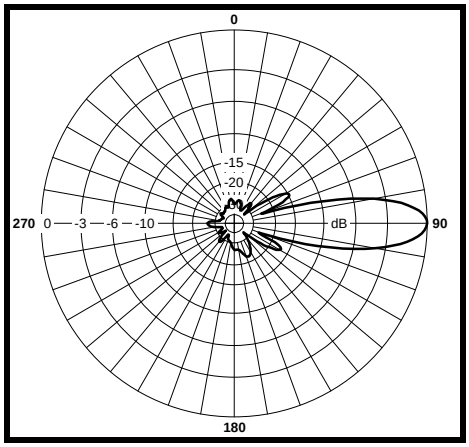
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-1882-2-60 Sector

1850-1990 MHz

The TA-1882-2-60 is a vertically polarized 60 degree sectoral antenna, designed for DECT and PCS applications requiring lower gain and a relatively broad vertical radiation pattern. The printed circuit radiating assembly and transmission lines are enclosed in an aluminum cavity with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 25 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

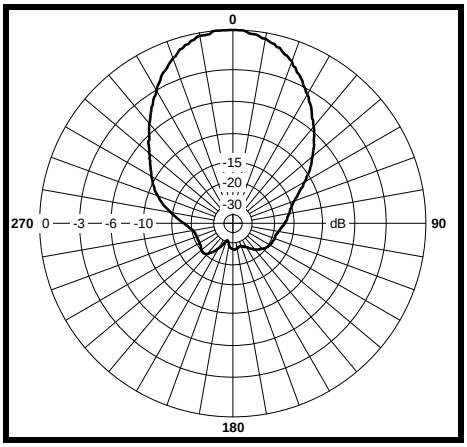
Mechanical Specifications

Length: 11.8 in. (300 mm)
Width: 6.7 in. (170 mm)
Depth: 3.6 in. (92 mm)
Weight (incl. Clamps): 2 lb. (0.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 46 lb. (21 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

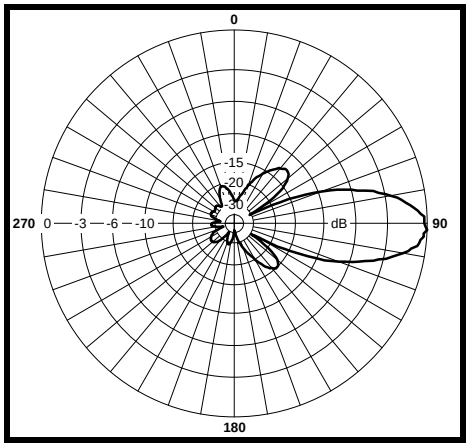
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-1882-2-85 Sector

1880-1930 MHz

The TA-1882-2-85 is a vertically polarized 85 degree sectoral antenna, designed for DECT and PCS applications requiring lower gain and a relatively broad vertical radiation pattern. The printed circuit radiating assembly and transmission lines are enclosed in an aluminum cavity with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1880-1930 MHz
Gain: 10.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 85 degrees
E-Plane Beamwidth: 25 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

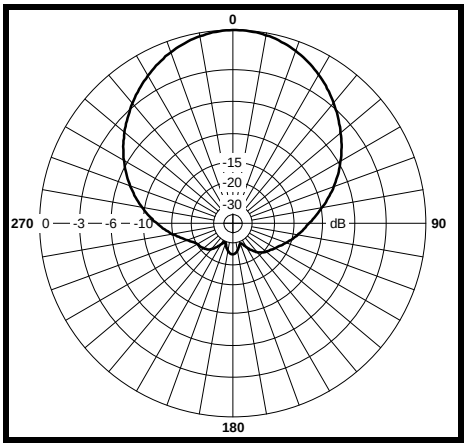
Mechanical Specifications

Length: 11.8 in. (300 mm)
Width: 4.2 in. (102 mm)
Depth: 3.6 in. (92 mm)
Weight (incl. Clamps): 2 lb. (0.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 18 lb. (8.2 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

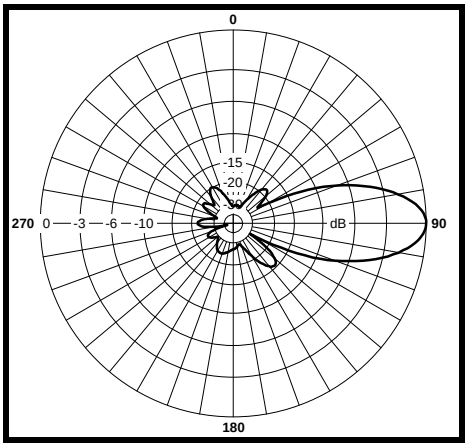
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-1882-4-60 Sector

1880-1930 MHz

The TA-1882-4-60 is a vertically polarized 60 degree sectoral antenna, designed for DECT and PCS applications requiring medium gain and a relatively narrow vertical radiation pattern. The printed circuit radiating assembly and transmission lines are enclosed in an aluminum cavity with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1880-1930 MHz
Gain: 15 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

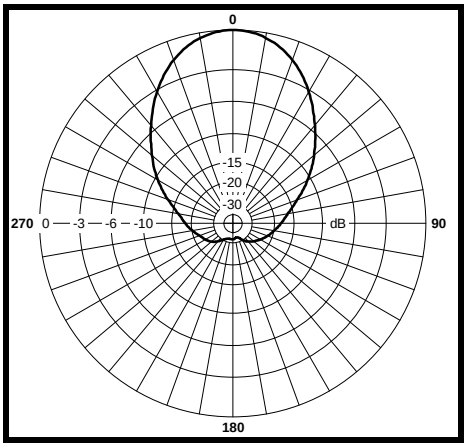
Mechanical Specifications

Length: 23.2 in. (589 mm)
Width: 6.25 in. (161 mm)
Depth: 3.6 in. (92 mm)
Weight (incl. Clamps): 2 lb. (0.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 85 lb. (38.6 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

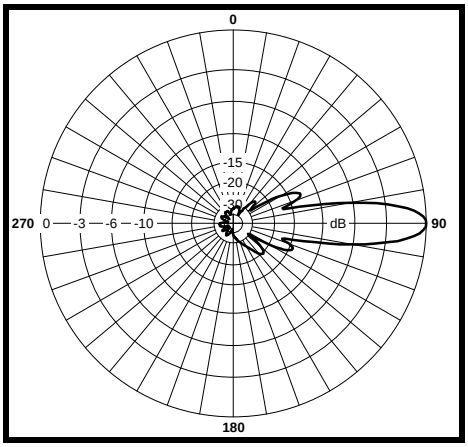
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-2104-12-90 Sector

2150-2350 or 2500-2700 MHz

The TA-2104-12-90 is a broadband vertically polarized 90 degree sectoral antenna. It was designed specifically for applications requiring superior functionality to maximize overall system performance. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2150-2350 or 2500-2700 MHz
Gain: 16.5 +/- 1 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 85° min.
E-Plane Beamwidth: 7° min.
Electrical Downtilt: 0.5° +/- 0.5°
Cross Pol. Discrimination: 20 dB (0° - 90°)
28 dB (90° - 135°)
32 dB (135°-180°)
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

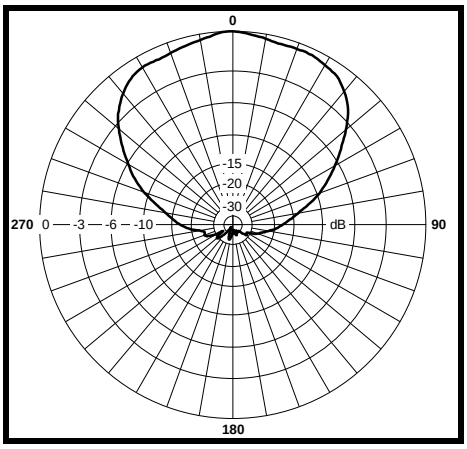
Mechanical Specifications

Length: 49 in. (1245 mm)
Width: 17 in. (432 mm)
Depth: 5 in. (127 mm)
Weight (incl. Clamps): 22 lb. (10.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 238 lb. (108 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

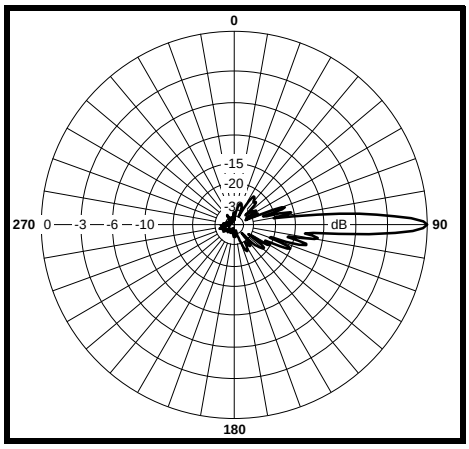
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized plastic
Clamps: Aluminum and HDG steel

H-Plane

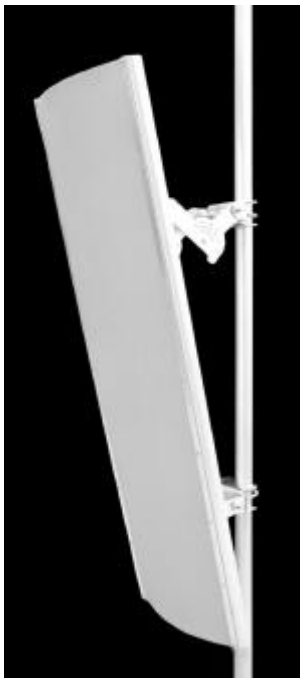


E-Plane



TA-2104-16-90 Sector

2150-2350 or 2500-2700 MHz



The TA-2104-16-90 is a broadband vertically polarized 90 degree sectoral antenna. It was designed specifically for applications requiring superior functionality to maximize overall system performance. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2150-2350 or 2500-2700 MHz
Gain: 17.5 +/- 1 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical
Power Rating: 200 Watts
H-Plane Beamwidth: 85° min.
E-Plane Beamwidth: 5° min.
Electrical Downtilt: 0.5° +/- 0.5°
Cross Pol. Discrimination: 20 dB (0° - 90°)
28 dB (90° - 135°)
32 dB (135°-180°)
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

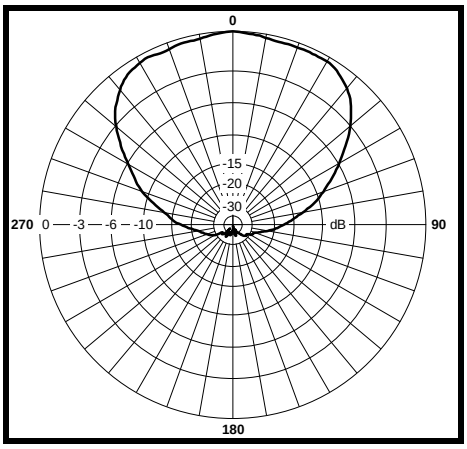
Mechanical Specifications

Length: 64 in. (1626 mm)
Width: 17 in. (432 mm)
Depth: 5 in. (127 mm)
Weight (incl. Clamps): 28 lb. (12.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 316 lb. (143 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

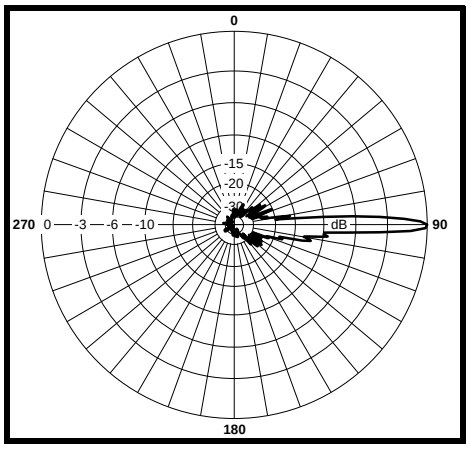
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized plastic
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-2105H-10-45 Sector

2150-2350 / 2500-2700 MHz

The TA-2105H-10-45 is a horizontally polarized 45 degree sectoral antenna. It was designed specifically for applications requiring superior functionality to maximize overall system performance. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2150-2350 / 2500-2700 MHz
Gain: 17 dBi min.
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB (-67° to +67°)
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 11° +/- 1.5°
E-Plane Beamwidth: 40° +/- 5°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

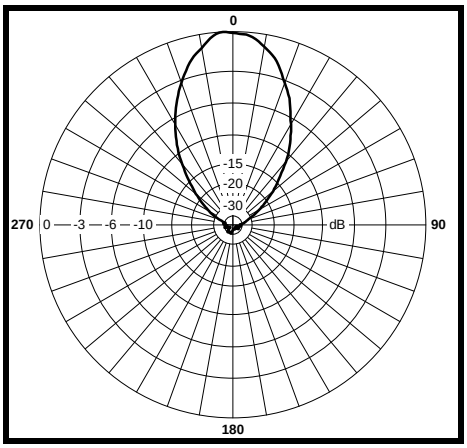
Mechanical Specifications

Length: 38.5 in. (978 mm)
Width: 18 in. (457 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 22 lb. (10 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 300 lb. (136 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

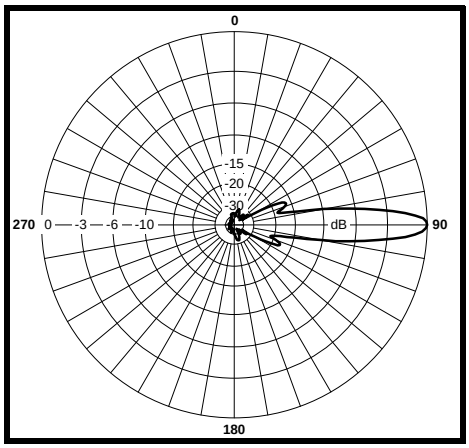
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

E-Plane



H-Plane



TA-2105H-12-90 Sector

2150-2350 or 2500-2700 MHz

The TA-2105H-12-90 is a broadband horizontally polarized 90 degree sectoral antenna. It was designed specifically for applications requiring superior functionality to maximize overall system performance. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2150-2350 or 2500-2700 MHz
Gain: 16 +/- 1 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 7° min.
E-Plane Beamwidth: 85° min.
Electrical Downtilt: 0.5° +/- 0.5°
Cross Pol. Discrimination: 20 dB (0° - 90°)
28 dB (90° - 135°)
32 dB (135°-180°)
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

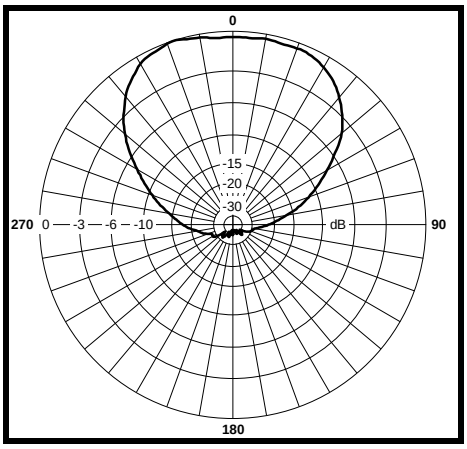
Mechanical Specifications

Length: 49 in. (1245 mm)
Width: 17 in. (432 mm)
Depth: 5 in. (127 mm)
Weight (incl. Clamps): 23 lb. (10.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 238 lb. (108 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

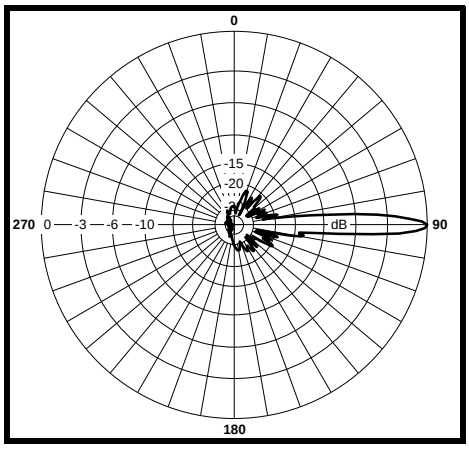
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized plastic
Clamps: Aluminum and HDG steel

E-Plane

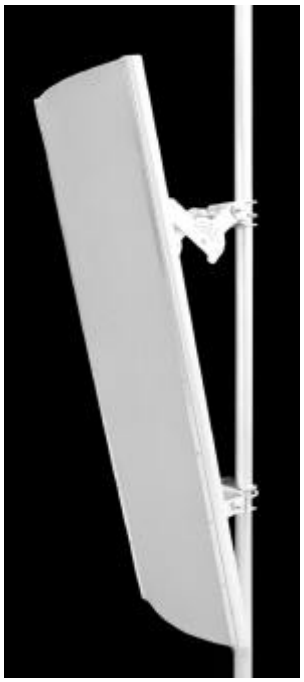


H-Plane



TA-2105H-16-90 Sector

2150-2350 or 2500-2700 MHz



The TA-2105H-16-90 is a broadband horizontally polarized 90 degree sectoral antenna. It was designed specifically for applications requiring superior functionality to maximize overall system performance. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2150-2350 or 2500-2700 MHz
Gain: 17.5 +/- 1 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 5° min.
E-Plane Beamwidth: 85° min.
Electrical Downtilt: 0.5° +/- 0.5°
Cross Pol. Discrimination: 20 dB (0° - 90°)
28 dB (90° - 135°)
32 dB (135°-180°)
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

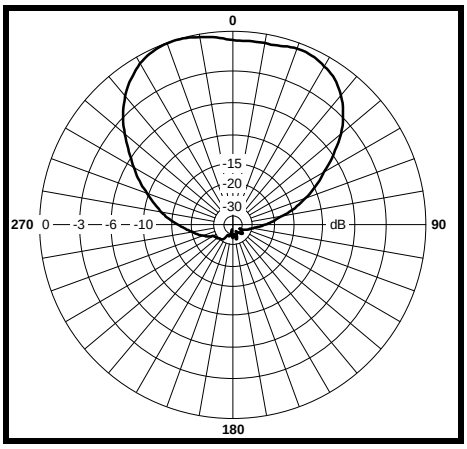
Mechanical Specifications

Length: 64 in. (1626 mm)
Width: 17 in. (432 mm)
Depth: 5 in. (127 mm)
Weight (incl. Clamps): 28 lb. (12.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 316 lb. (143 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

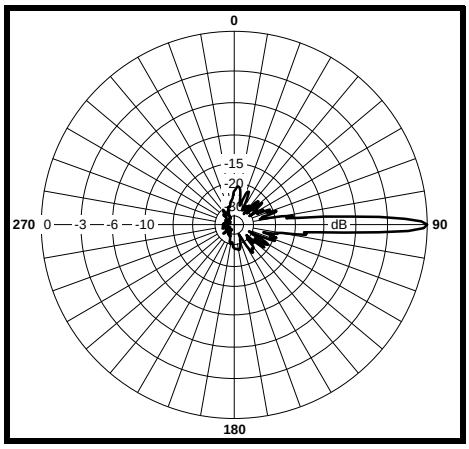
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized plastic
Clamps: Aluminum and HDG steel

E-Plane



H-Plane



TA-2107 Panel

2150-2350 MHz

The TA-2107 is a vertically or horizontally polarized panel antenna, designed specifically for applications requiring superior functionality to maximize overall system performance. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2150-2350 MHz
Gain: 17 dBi min.
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 20° +/- 2°
E-Plane Beamwidth: 20° +/- 2°
Cross Pol. Discrimination:
30 dB (+/-34º to +/-45°)
35 dB (+/-45° to +/-180°)
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

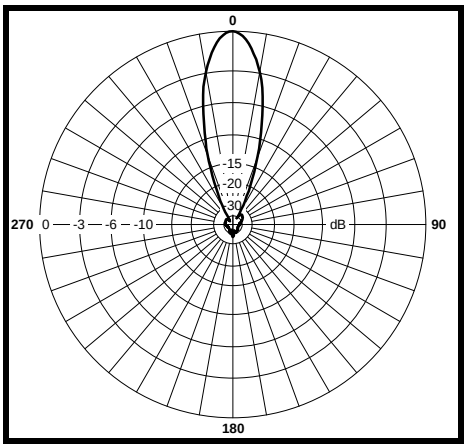
Mechanical Specifications

Side Length: 18 in. (457 mm)
Diagonal Length: 25.25 in. (641 mm)
Width: 18 in. (457 mm)
Depth: 5.1 in. (130 mm)
Weight (incl. Clamps): 13 lb. (5.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 83 lb. (37.6 kg)
Mechanical Tilt: 0 - 10 degrees
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

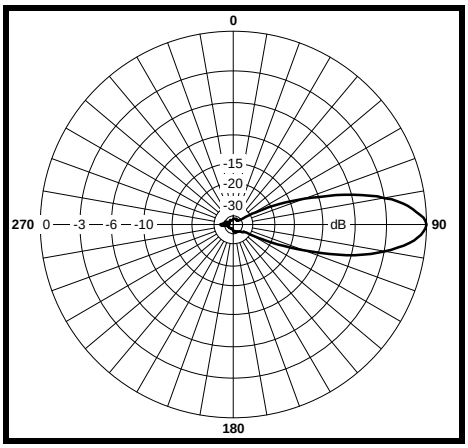
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

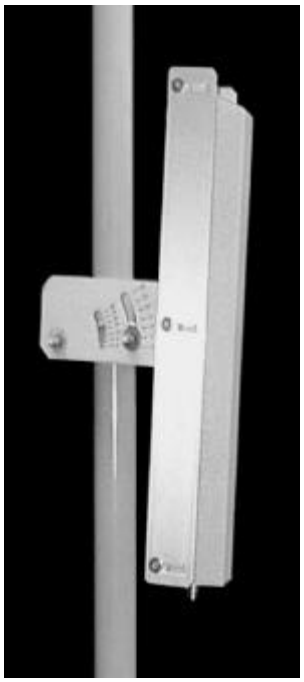


E-Plane



TA-2304 Adjustable Sector

2300-2500 MHz



The TA-2304 is a vertically polarized sectoral antenna which has adjustable side panels for 60-160 degree azimuth patterns. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 15 dBi @ 60°, 13 dBi @ 90°
12 dBi @ 120°, 10.5 dBi @ 160°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min.(15 dB @160°)
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

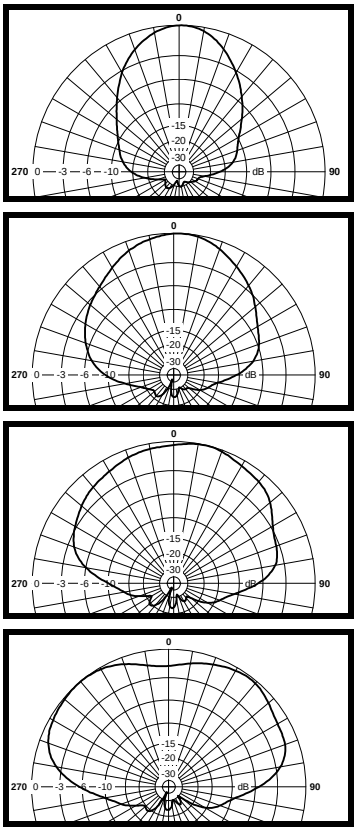
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 43 lb. (19.5 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

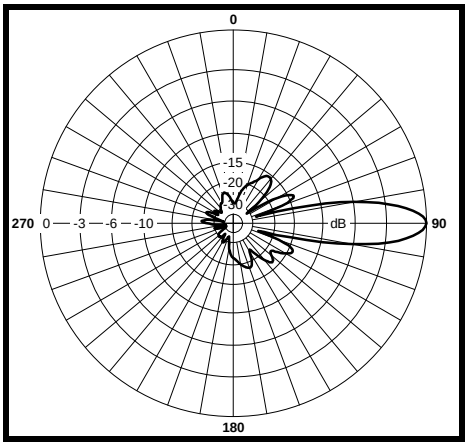
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-2304-45 Sector

2300-2500 MHz

The TA-2304-45 is a vertically polarized sectoral antenna with a fixed 45 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 16 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

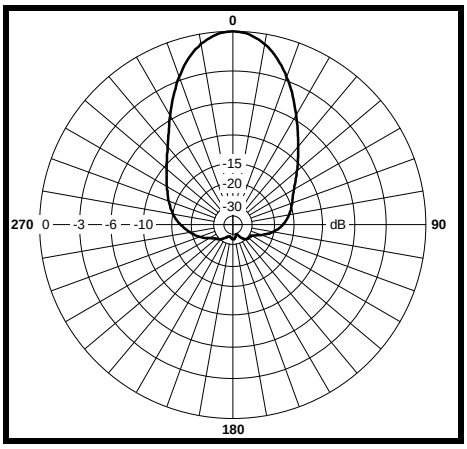
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 6.5 in. (165 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 43 lb. (19.5 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

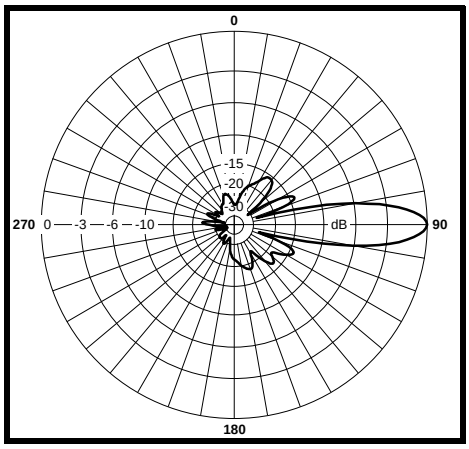
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

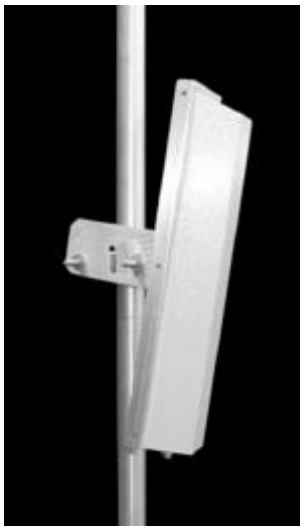


E-Plane



TA-2304-180 Sector

2300-2500 MHz



The TA-2304-180 is a vertically polarized sectoral antenna with a fixed 180 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

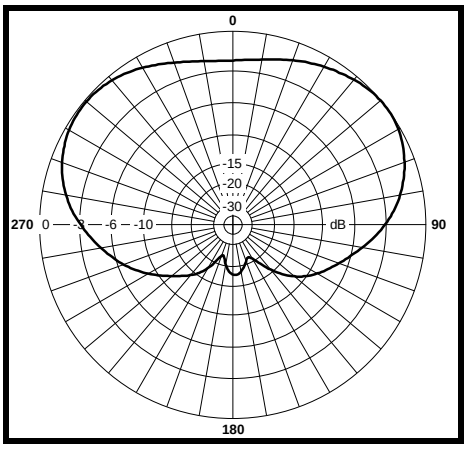
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 43 lb. (19.5 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

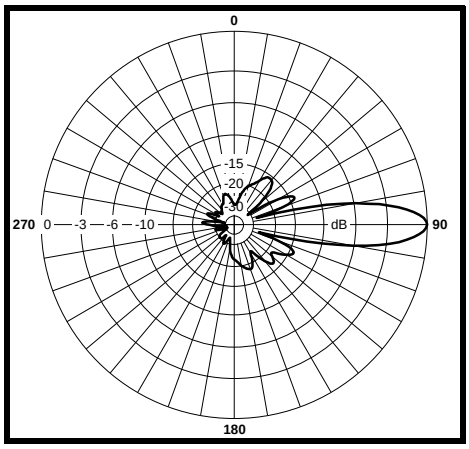
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-2304-2 Adjustable Sector

2300-2500 MHz

The TA-2304-2 is a vertically polarized sectoral antenna which has adjustable side panels for 60, 90, 120, and 160 degrees azimuth patterns. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 17.5 dBi @ 60°, 15.5 dBi @ 90°
14.5 dBi @120°, 13 dBi @ 160°
VSWR: 1.5:1
Front to Back Ratio: 20 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 7.2 degrees
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

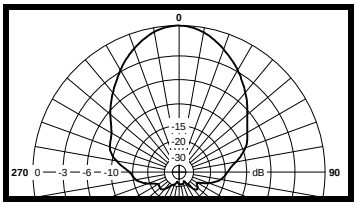
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

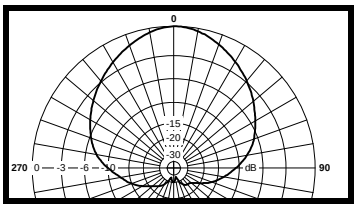
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

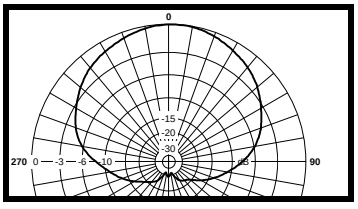
H-Plane



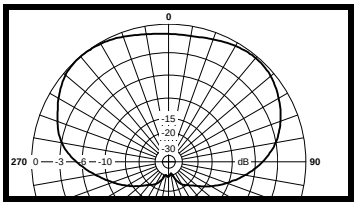
60°



90°

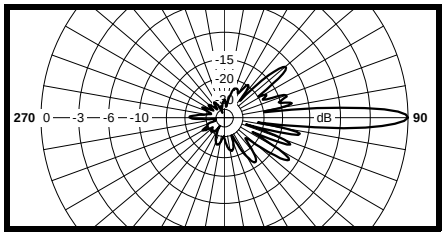


120°

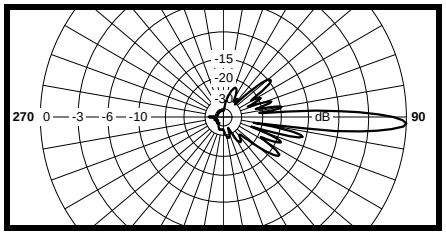


160°

E-Plane



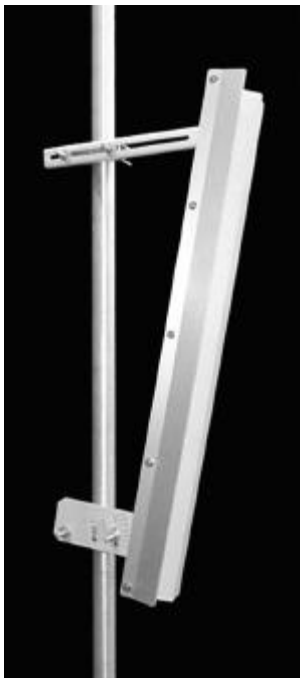
T0



T2

TA-2304-2-45 Sector

2300-2500 MHz



The TA-2304-2-45 is a vertically polarized sectoral antenna with a fixed 45 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 18.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 7.2 degrees
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

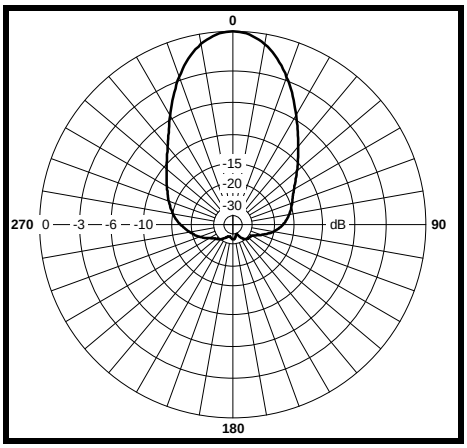
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 6.5 in (165 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

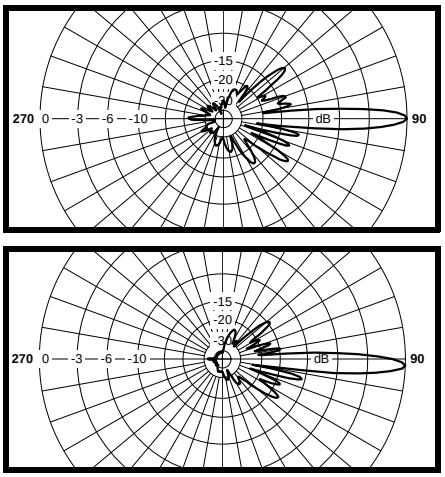
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

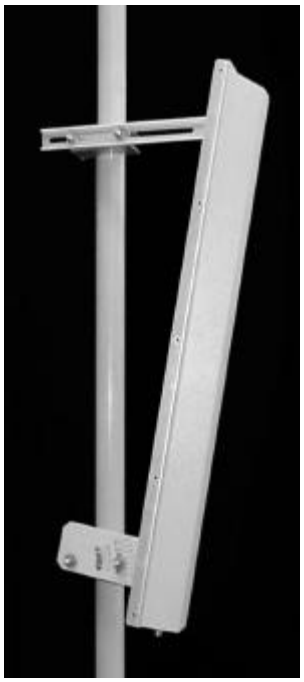


E-Plane



TA-2304-2-180 Sector

2300-2500 MHz



The TA-2304-2-180 is a vertically polarized sectoral antenna with a fixed 180 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 12.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 7.2 degrees
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

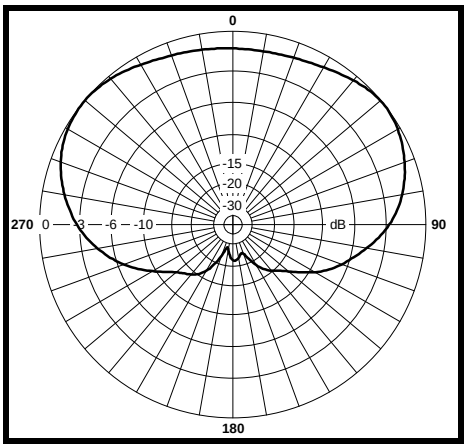
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

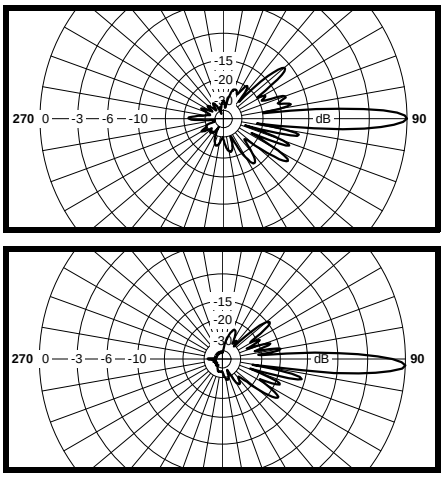
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

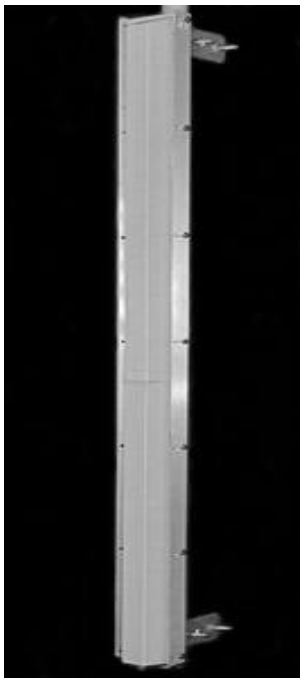


E-Plane



TA-2304-4 Adjustable Sector

2300-2500 MHz



The TA-2304-4 is a vertically polarized high gain sectoral antenna which can be ordered with adjustable side panels for 60-160 degree patterns. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 20 dBi @ 60°, 18.5 dBi @ 90°
17 dBi @ 120°, 15.5 dBi @ 160°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 3.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

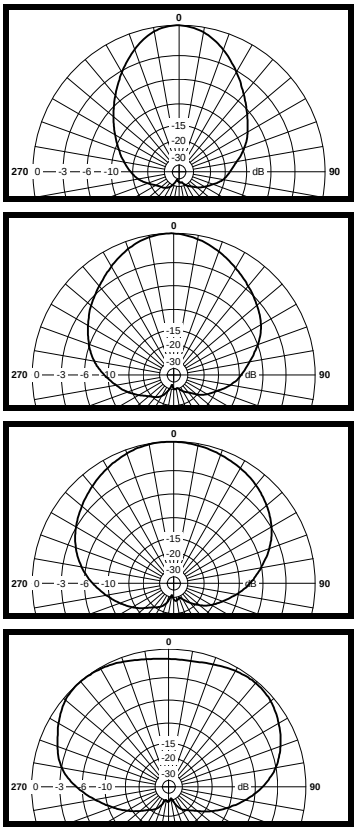
Mechanical Specifications

Length: 71 in. (1803 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 153 lb. (69 kg)
Mechanical Tilt: 0 - 10 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

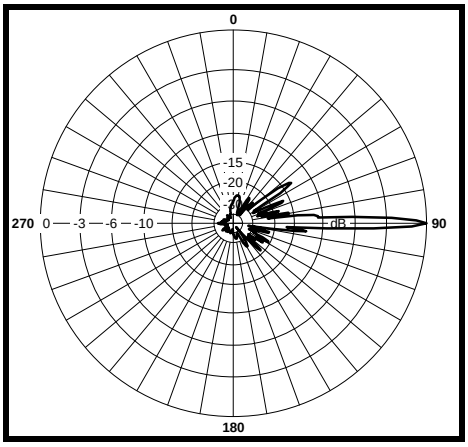
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

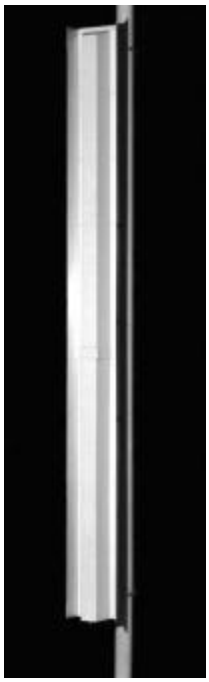


E-Plane



TA-2304-4-45 Sector

2300-2500 MHz



The TA-2304-4-45 is a vertically polarized high gain 45 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 21 dBi
VSWR: 1.5:1
Front to Back Ratio: 30 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 3.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

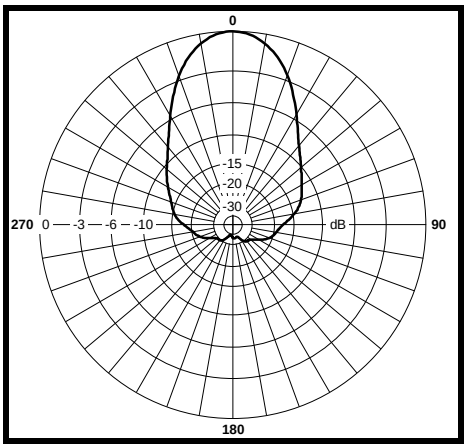
Mechanical Specifications

Length: 71 in. (1803 mm)
Width: 6.5 in. (165 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 153 lb. (69 kg)
Mechanical Tilt: 0 - 10 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

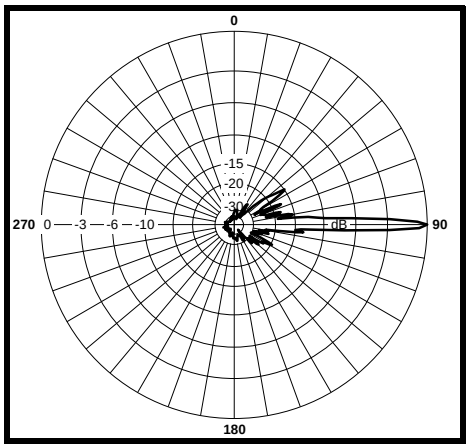
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

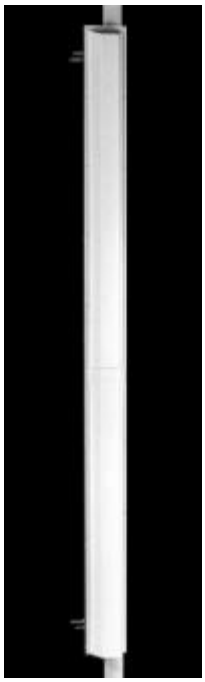


E-Plane



TA-2304-4-180 Sector

2300-2500 MHz



The TA-2304-4-180 is a vertically polarized high gain 180 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 15 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 3.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

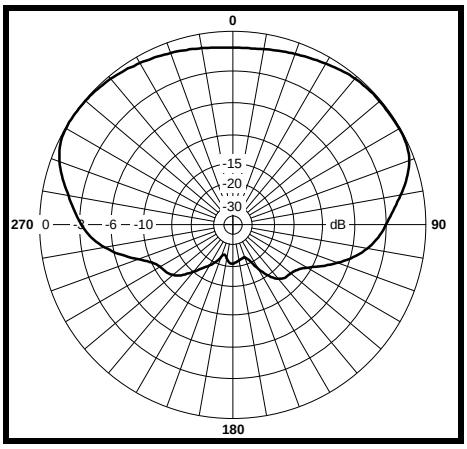
Mechanical Specifications

Length: 71 in. (1803 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 153 lb. (69 kg)
Mechanical Tilt: 0 - 10 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

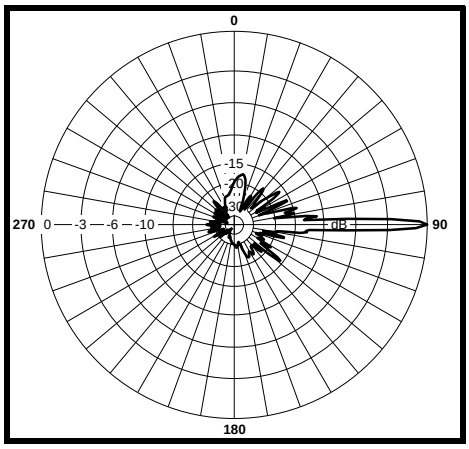
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

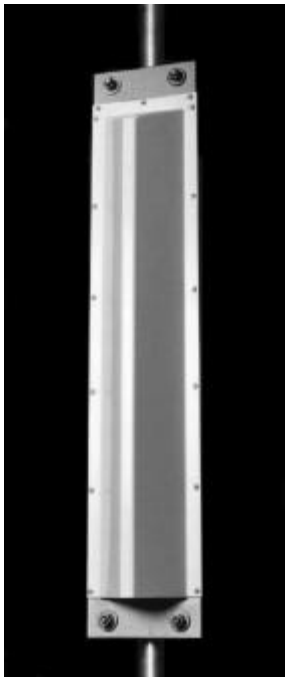


E-Plane



TA-2305H Sector

2300-2500 MHz



The TA-2305H is a horizontally polarized 100 degree sectoral antenna with 11 dBi of gain. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 11 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 16 dB
Polarization: Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 18 degrees
E-Plane Beamwidth: 100 degrees
Cross Pol. Discrimination: 19 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

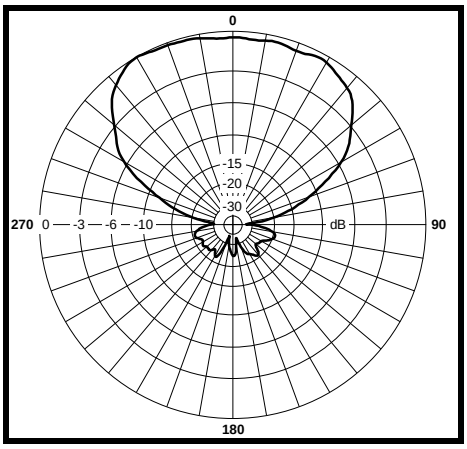
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 8 in. (203 mm)
Depth: 4.75 in. (121 mm)
Weight (incl. Clamps): 16 lb. (7.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 93 lb. (42.3 kg)
Mechanical Tilt: 0 - 15 degrees (optional)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

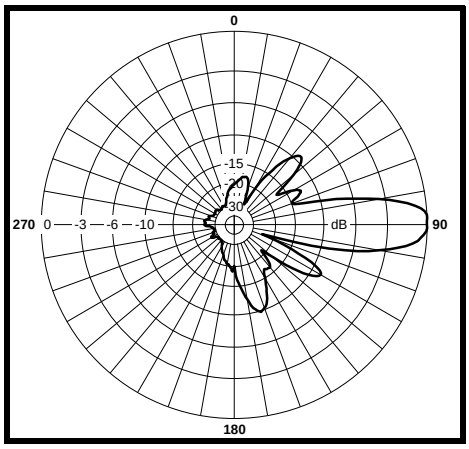
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

E-Plane

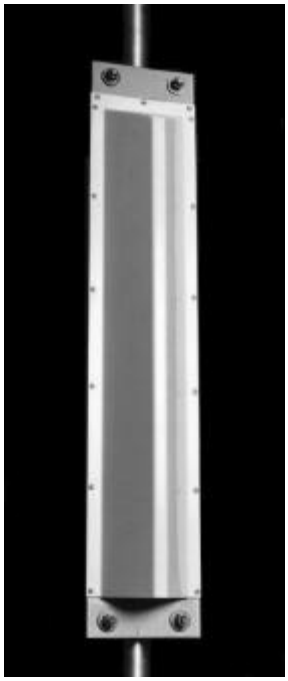


H-Plane



TA-2305H-2 Sector

2300-2500 MHz



The TA-2305H-2 is a horizontally polarized 100 degree sectoral antenna with 14 dBi of gain. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 14 +/- 0.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 18 dB
Polarization: Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 8.5 degrees
E-Plane Beamwidth: 100 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female (7/16 DIN optional)

Typical mid band values. (For details , contact factory)

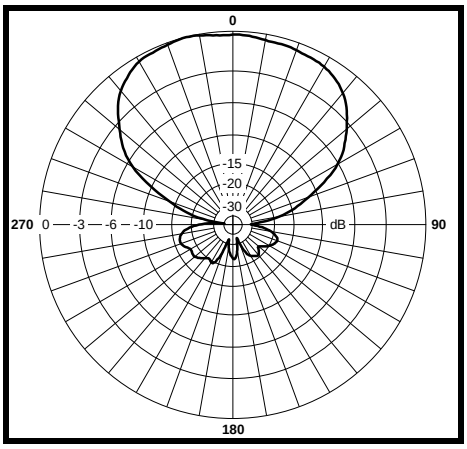
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 8 in. (203 mm)
Depth: 4.75 in. (121 mm)
Weight (incl. Clamps): 16 lb. (7.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 93 lb. (42.3 kg)
Mechanical Tilt: 0 - 15 degrees (optional)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

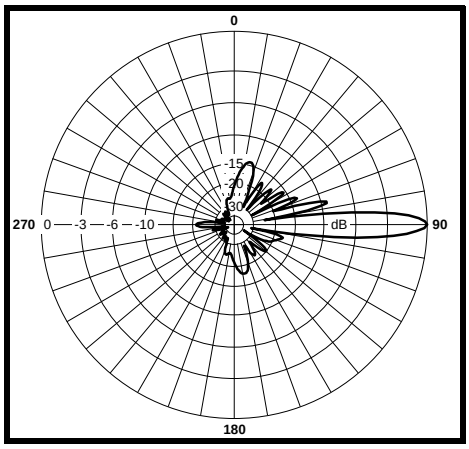
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

E-Plane



H-Plane



TA-2308 Panel

2300-2500 MHz

The TA-2308 is a vertically or horizontally polarized panel antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 17 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB
Polarization: Vertical or Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 22 degrees
E-Plane Beamwidth: 22 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

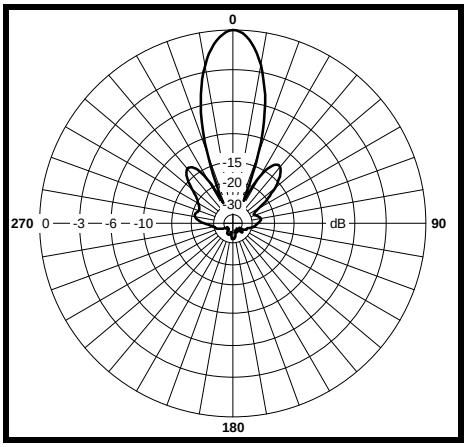
Mechanical Specifications

Length: 12.75 in. (324 mm)
Width: 13.6 in. (345 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 7 lb. (3.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 75 lb. (34.0 kg)
Mechanical Tilt: 0 +/- 11 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

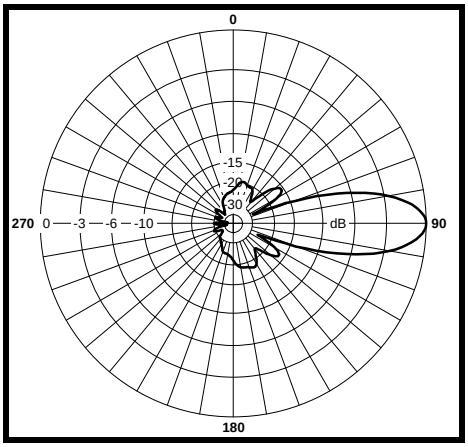
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

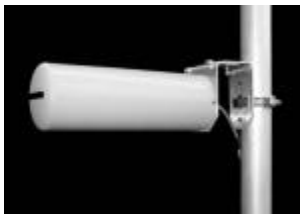


E-Plane



TA-2311 Yagi

2300-2500 MHz



The TA-2311 is a vertically or horizontally polarized yagi antenna. The antenna consists of a printed broadband yagi enclosed in a UV stabilized ASA radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 11.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 47 degrees
E-Plane Beamwidth: 42 degrees
Cross Pol. Discrimination: 15 dB
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

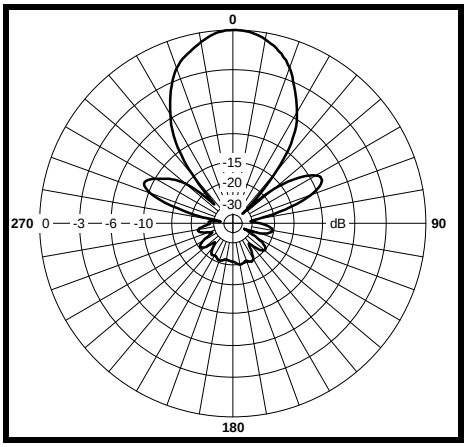
Mechanical Specifications

Length: 10.5 in. (267 mm)
Diameter: 3 in. (76 mm)
Weight (Incl. Clamps): 2 lb. (0.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 9 lb. (4 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

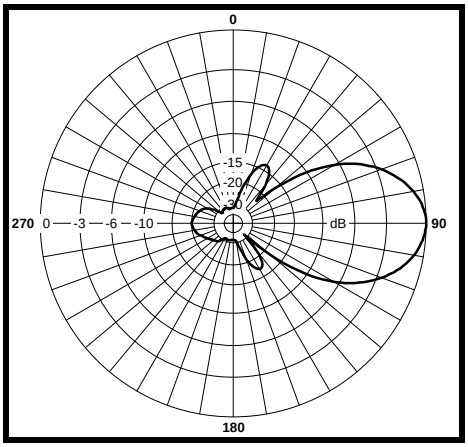
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

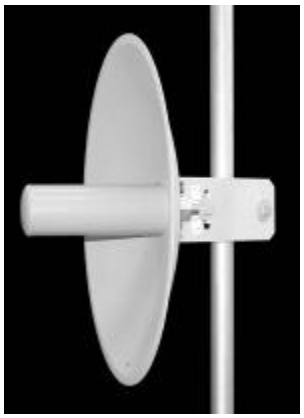


E-Plane



TA-2318 Solid Parabolic

2300-2500 MHz



TA-2318

TA-2318R

The TA-2318 is an 18 inch diameter solid parabolic antenna. The antenna feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-2318R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 19 dBi
VSWR: 1.35:1 (1.5:1 for TA-2318R)
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 18 degrees
E-Plane Beamwidth: 20 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

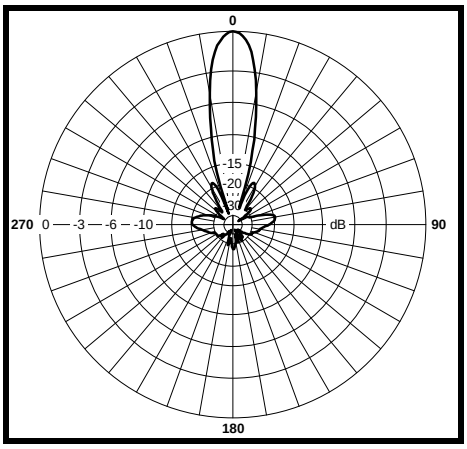
Mechanical Specifications

Diameter: 19.25 in. (489 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 136 lb. (61.8 kg)
with radome: 60 lb. (31.4 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

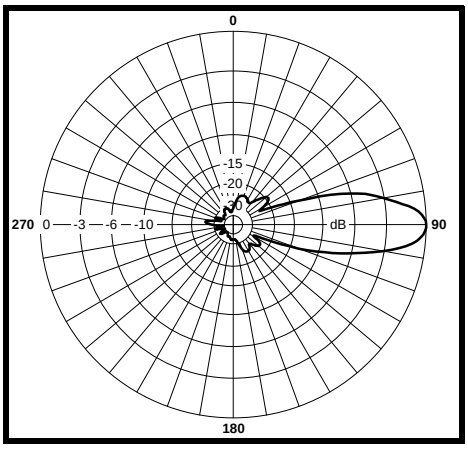
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-2324 Solid Parabolic

2300-2500 MHz

TA-2324

TA-2324R

The TA-2324 is a 24 inch diameter solid parabolic antenna. The antenna feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-2324R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 21 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 28 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 13.5 degrees
E-Plane Beamwidth: 15 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

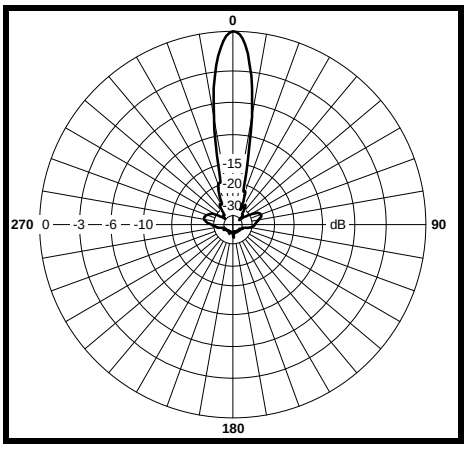
Mechanical Specifications

Diameter: 25.25 in. (641 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 20 lb. (9.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 234 lb. (106.4 kg)
with radome: 120 lb. (54.4 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

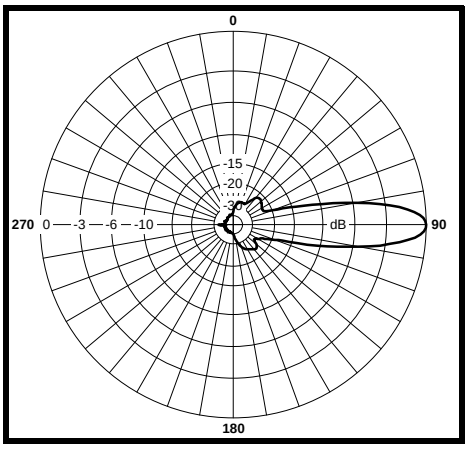
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

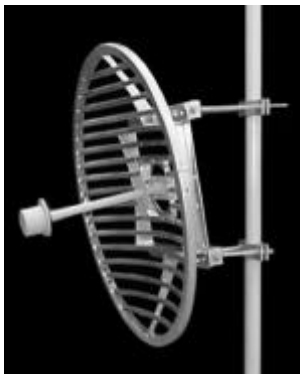


E-Plane



TA-2336 Grid Parabolic

2300-2500 MHz



The TA-2336 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is at DC ground to aid in lightning protection. This antenna is extremely rugged and is designed to provide superior performance in any conditions.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 24.5 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 9 degrees
E-Plane Beamwidth: 10 degrees
Cross Pol. Discrimination: 30 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

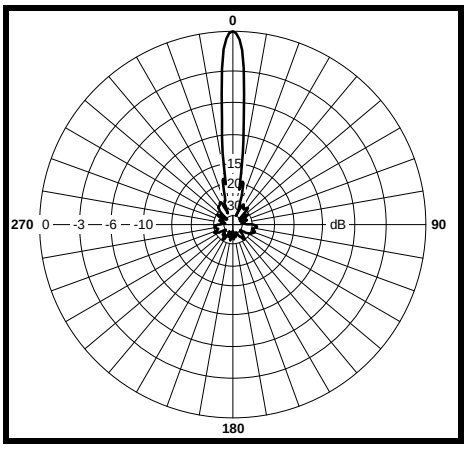
Mechanical Specifications

Diameter: 38.5 in. (978 mm)
Weight (Incl. clamps): 40 lb. (18.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 177 lb. (80.5 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

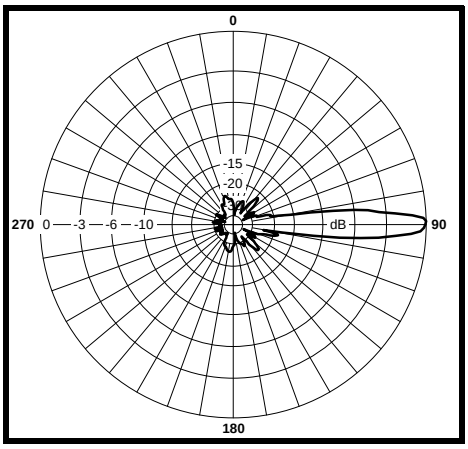
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane

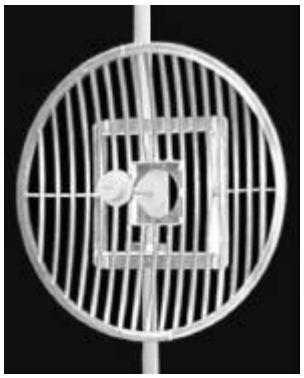


E-Plane



TA-2348 Grid Parabolic

2300-2500 MHz



The TA-2348 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is at DC ground to aid in lightning protection. This antenna is extremely rugged and is designed to provide superior performance in any conditions.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 27 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 6.8 degrees
E-Plane Beamwidth: 7.5 degrees
Cross Pol. Discrimination: 30 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

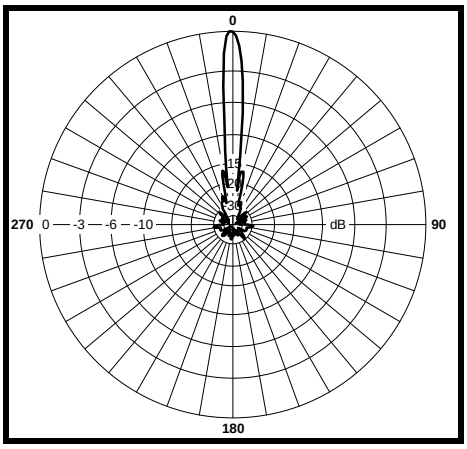
Mechanical Specifications

Diameter: 50.5 in. (1283 mm)
Weight (Incl. clamps): 50 lb. (22.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 304 lb. (138.2 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

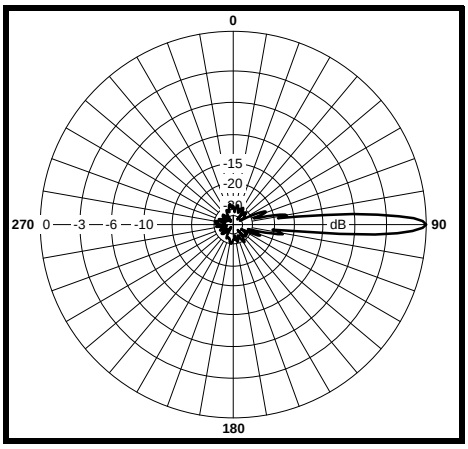
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane

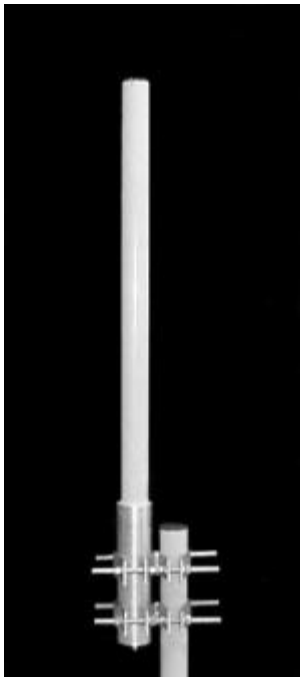


E-Plane



TA-2350 Omnidirectional

2300-2500 MHz



The TA-2350 is a 10 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is made differently depending on the electrical downtilt (T0 / T2 / T4) which has an effect on certain specifications as noted below. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Electrical Downtilt: 0, 2, 4 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

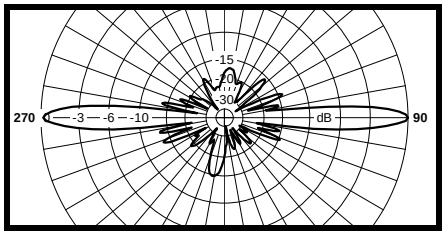
Mechanical Specifications

Length: 48 in. (1219 mm) / 70 in. (1778 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 15 lb. (6.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 31 lb. (14.1 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

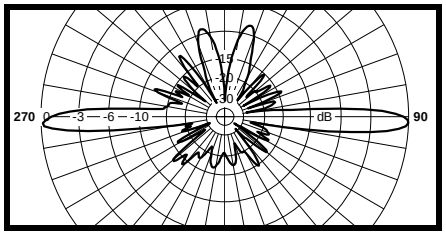
Materials

Radiating Elements: Copper / Plated copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

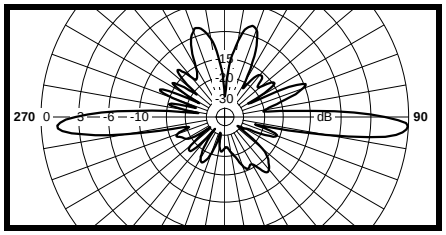
E-Plane



T0



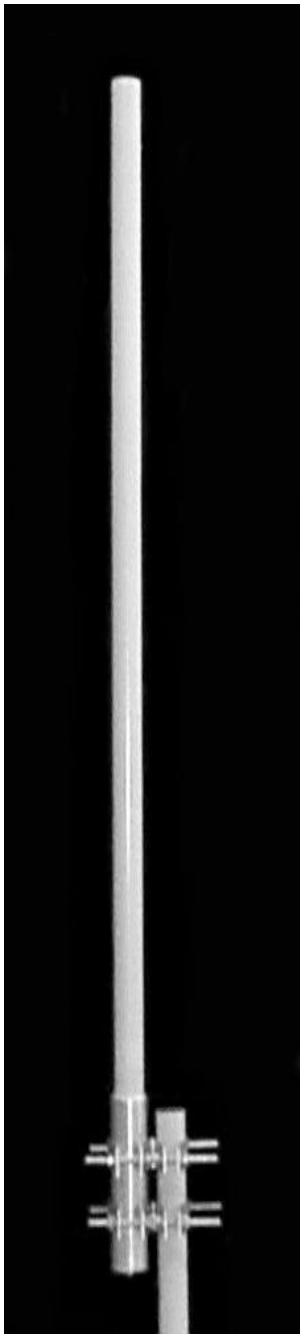
T2



T4

TA-2350-2 Omnidirectional

2300-2500 MHz



The TA-2350-2 is a 12 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2300-2500 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 4 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

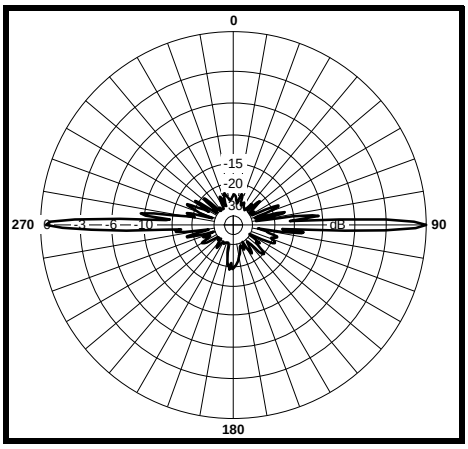
Mechanical Specifications

Length: 80 in. (2032 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 18 lb. (8.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 52 lb. (23.6 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

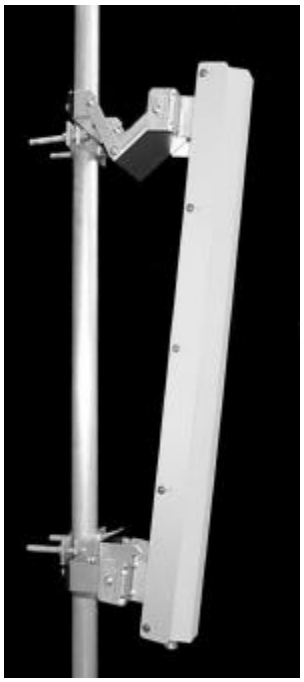
E-Plane



TA-2304-2-DAB

Medium Power Adjustable Sector

2330-2345 MHz



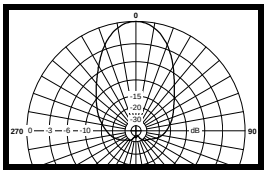
The TA-2304-2-DAB is a medium power vertically polarized sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120, or 160 degrees by use of side panels. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

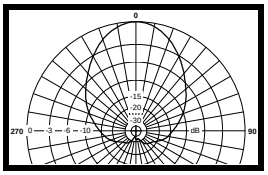
Frequency Range: 2330-2345 MHz
Gain: 17 dBi @ 45°, 16 dBi @ 60°, 14 dBi @ 90°
13 dBi @ 120°, 11.5 dBi @ 160°
VSWR: 1.3:1 max.
Front to Back Ratio: 15 dB @ 180°+/- 35°
Polarization: Vertical
Power Rating: 200 W avg., 800 W peak
H-Plane Beamwidth: 45°, 60°, 90°, 120°, 160°
E-Plane Beamwidth: 7.5 degrees
Cross Pol. Discrimination: 15 dB
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

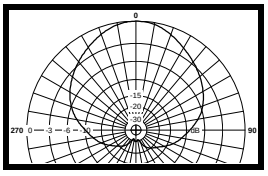
H-Plane



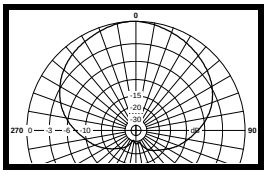
45°



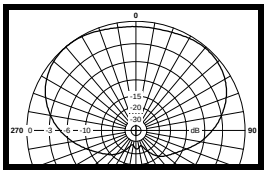
60°



90°



120°



160°

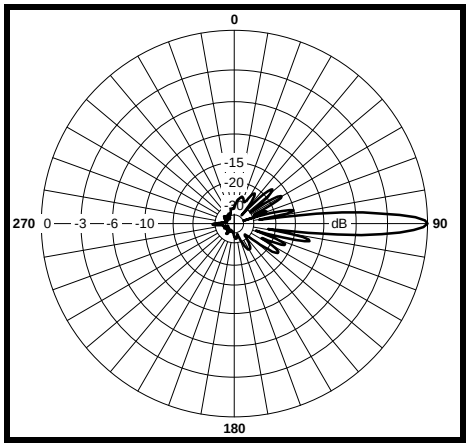
Mechanical Specifications

Length: 39.5 in. (1003 mm)
Width: 6.5 in. (165 mm) with 45° side panels
5.0 in. (127 mm) without 45° side panels
Depth: 3.5 in. (89 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
with 45° side panels: 113 lb. (51 kg)
Mechanical Tilt: +5° to -15°
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

Materials

Radiating Elements: Tin Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

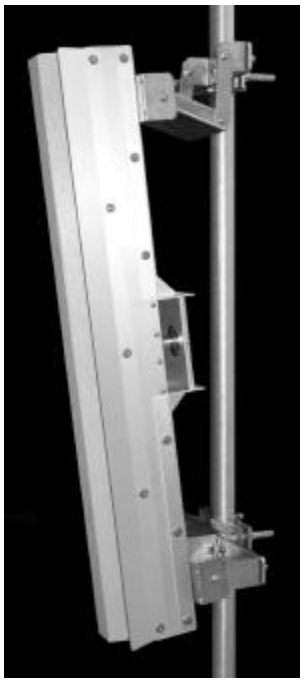
E-Plane



TA-2304-2-DAB-H

High Power Adjustable Sector

2330-2345 MHz



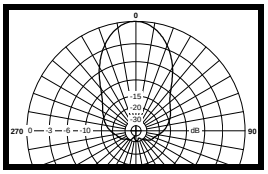
The TA-2304-2-DAB-H is a high power vertically polarized sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120, or 160 degrees by use of side panels. The antenna elements are at DC ground to aid in lightning protection.

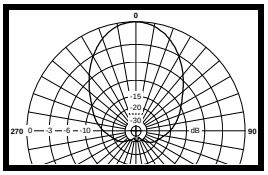
Electrical Specifications

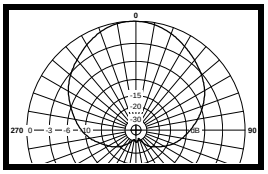
Frequency Range: 2330-2345 MHz
Gain: 18 dBi @ 45°, 17 dBi @ 60°, 15 dBi @ 90°
14 dBi @ 120°, 13 dBi @ 160°
VSWR: 1.3:1 max.
Front to Back Ratio: 15 dB min.
Polarization: Vertical
Power Rating: 2000 W avg., 8000 W peak
H-Plane Beamwidth: 45°, 60°, 90°, 120°, 160°
E-Plane Beamwidth: 7 degrees
Cross Pol. Discrimination: 20 dB
Impedance: 50 ohms nominal
Termination: 7/8" EIA Flange

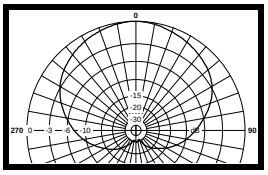
Typical mid band values. (For details , contact factory)

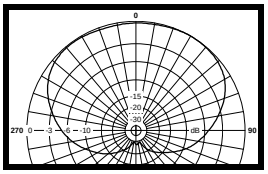
H-Plane











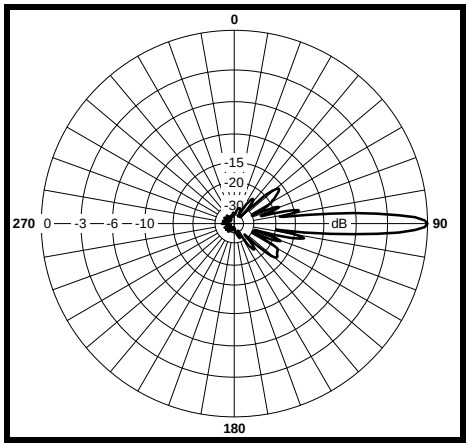
Mechanical Specifications

Length: 39.4 in. (1001 mm)
Width: 6.5 in. (165 mm) with 45° side panels
5.0 in. (127 mm) without 45° side panels
Depth: 9.0 in. (228.6 mm)
Weight (incl. Clamps): 31 lb. (14.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
with 45° side panels: 111 lb. (50.4 kg)
Mechanical Tilt: 0° +/- 11.5°
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

Materials

Radiating Elements: Tin Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Stainless and HDG steel

E-Plane



TA-2304-DAB

Medium Power Adjustable Sector

2330-2345 MHz

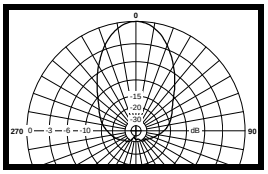
The TA-2304-DAB is a medium power vertically polarized sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120, or 160 degrees by use of side panels. The antenna elements are at DC ground to aid in lightning protection.

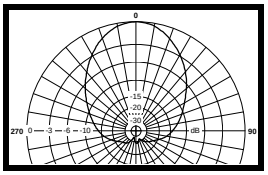
Electrical Specifications

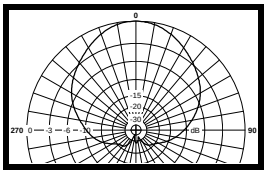
Frequency Range: 2330-2345 MHz
Gain: 15dBi @45°, 14dBi @60°, 12.5dBi @90°
12dBi @120°, 10.5dBi @160°
VSWR: 1.4:1 max.
Front to Back Ratio: 20 dB @ 180° +/- 35°
Polarization: Vertical
Power Rating: 200 W avg., 800 W peak
H-Plane Beamwidth: 45°, 60°, 90°, 120°, 160°
E-Plane Beamwidth: 15 degrees
Cross Pol. Discrimination: 15 dB
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

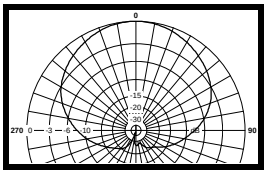
Typical mid band values. (For details , contact factory)

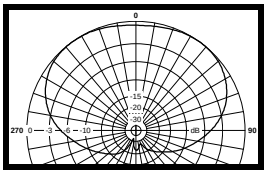
H-Plane











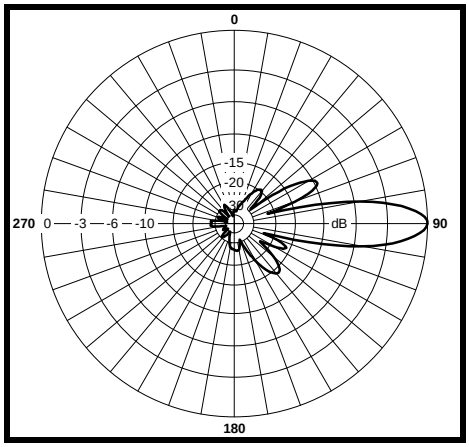
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 6.5 in. (165 mm) with 45° side panels
4.9 in. (124 mm) without 45° side panels
Depth: 3.5 in. (89 mm)
Weight (incl. Clamps): 6 lb. (2.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 44 lb. (20 kg)
with 45° side panels: 56 lb. (25 kg)
Mechanical Tilt: +5° to -15°
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Irridited aluminum and HDG steel

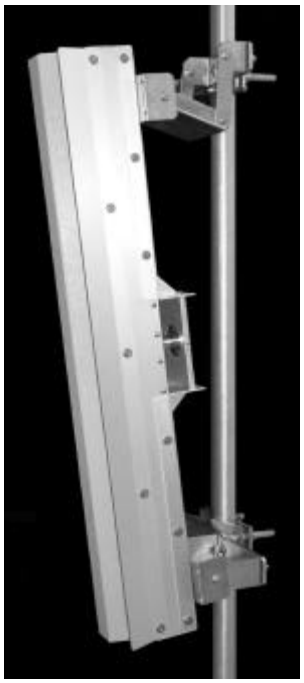
E-Plane



TA-2305-2-DAB-H

High Power Adjustable Sector

2305-2360 MHz



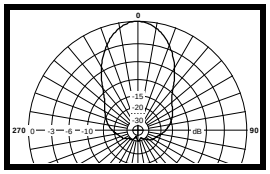
The TA-2305-2-DAB-H is a high power vertically polarized sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120, or 160 degrees by use of side panels. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

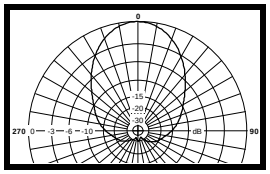
Frequency Range: 2305-2360 MHz
Gain: 18 dBi @ 45°, 17 dBi @ 60°, 15 dBi @ 90°
14 dBi @ 120°, 13 dBi @ 160°
VSWR: 1.3:1 max.
Front to Back Ratio: 15 dB min.
Polarization: Vertical
Power Rating: 2000 W avg., 8000 W peak
H-Plane Beamwidth: 45°, 60°, 90°, 120°, 160°
E-Plane Beamwidth: 7 degrees
Cross Pol. Discrimination: 20 dB
Impedance: 50 ohms nominal
Termination: 7/8" EIA Flange

Typical mid band values. (For details , contact factory)

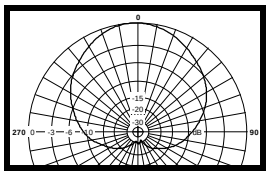
H-Plane



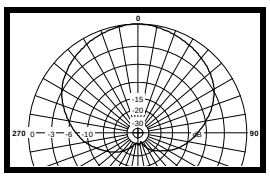
45°



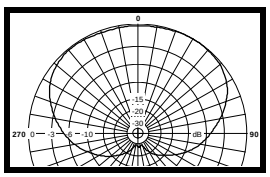
60°



90°



120°



160°

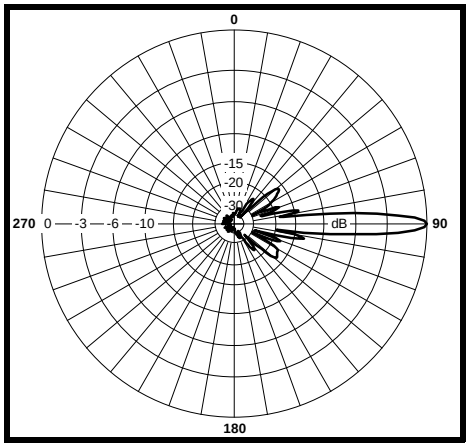
Mechanical Specifications

Length: 39.4 in. (1001 mm)
Width: 6.5 in. (165 mm) with 45° side panels
5.0 in. (127 mm) without 45° side panels
Depth: 9.0 in. (228.6 mm)
Weight (incl. Clamps): 31 lb. (14.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
with 45° side panels: 111 lb. (50.4 kg)
Mechanical Tilt: 0° +/- 11.5°
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

Materials

Radiating Elements: Tin Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Stainless and HDG steel

E-Plane



TA-2324-LHCP

Circularly Polarized Solid Parabolic

2330-2345 MHz

The TA-2324-LHCP is a left hand circular polarized solid parabolic intended specifically as a receive antenna for satellite signals. An optional shroud is available to further reduce the front to back ratio to 40 dB for improved interference perfomance. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz
Gain: 21 dBic
VSWR: 1.3:1 max.
Front to Back Ratio: 25 dB @ 180° +/- 35°
40 dB opt. @ 180° +/- 35°
Polarization: Left Hand Circular
Power Rating: 200 Watts
Elevation Beamwidth: 13.5 degrees
Axial Ratio: 2.5 dB
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

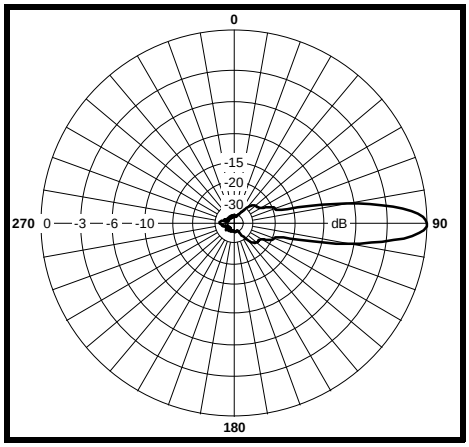
Mechanical Specifications

Diameter: 26 in. (660 mm)
Weight (Incl. clamps): 26 lb. (12.7 kg)
with 3" shroud: 31 lb. (14.06 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 127 lb. (57.6 kg)
Mechanical Tilt: +25° to +60°
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Painted Aluminum
Radome: Gray ASA UV stabilized
Clamps: HDG steel

Elevation



TA-2335-DAB-H

High Power Sector

2330-2345 MHz

The TA-2335-DAB-H is a high power vertically polarized sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is also designed to provide a shaped azimuth beamwidth of 95 degrees by use of shaped reflector phasing enabling multi-sector applications. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz
Gain: 15 dBi
VSWR: 1.4:1 min.
Front to Back Ratio: 20 dB
Polarization: Vertical
Power Rating: 1000 W avg. 4000 W peak
H-Plane Beamwidth: 95° @ -3dB, 120° @ -10
E-Plane Beamwidth: 7 degrees
Cross Pol. Discrimination: 20 dB
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

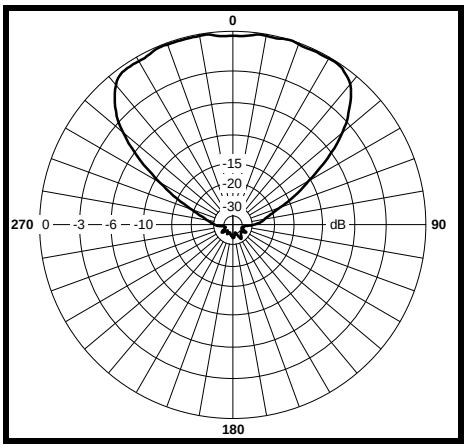
Mechanical Specifications

Length: 38 in. (965 mm)
Width: 21 in. (533 mm)
Depth: 8 in. (203 mm)
Weight (incl. Clamps): 33 lb. (15 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 344 lb. (156 kg)
Mechanical Tilt: +5° to -15°
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

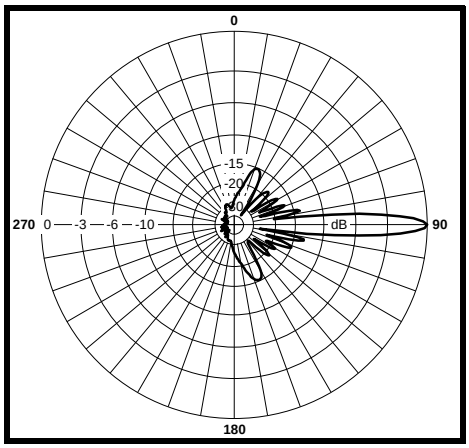
Materials

Radiating Elements: Gold-plated copper on PCE
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



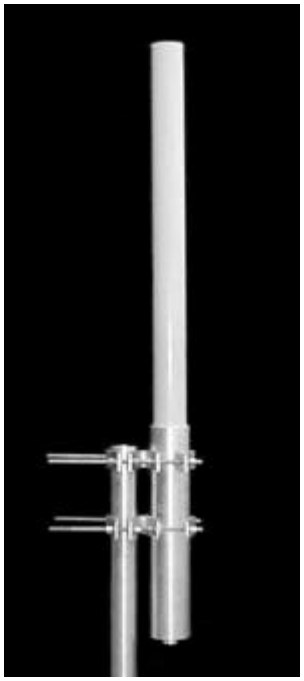
E-Plane



TA-2350-DAB

Medium Power Omnidirectional

2330-2345 MHz



The TA-2350-DAB is a medium power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz
Gain: 10 dBi
VSWR: 1.4:1 max.
Polarization: Vertical
Power Rating: 200 W avg., 800 W peak
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Electrical_Downtilt: 2, 4, 6 degrees
Cross Pol. Discrimination: 20 dB min.
Null Fill -20 dB (1st Null)
Impedance: 50 ohms nominal
Termination: 7/16 DIN female

Typical mid band values. (For details , contact factory)

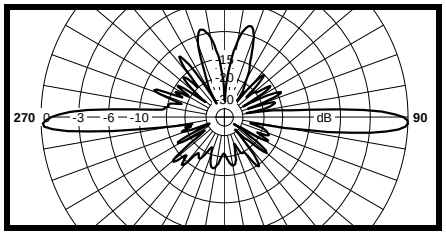
Mechanical Specifications

Length: 70 in. (1778 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 15 lb. (6.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 31 lb. (14 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

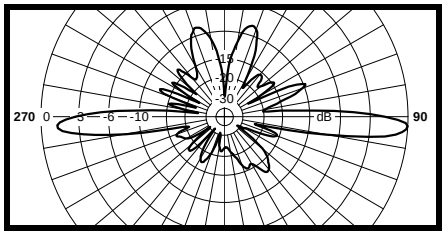
Materials

Radiating Elements: Nickel plated copper array
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

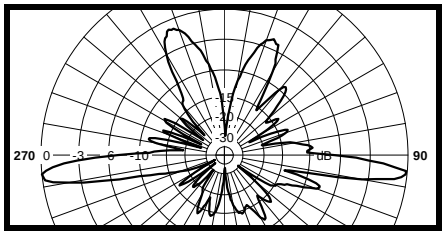
E-Plane



T2



T4

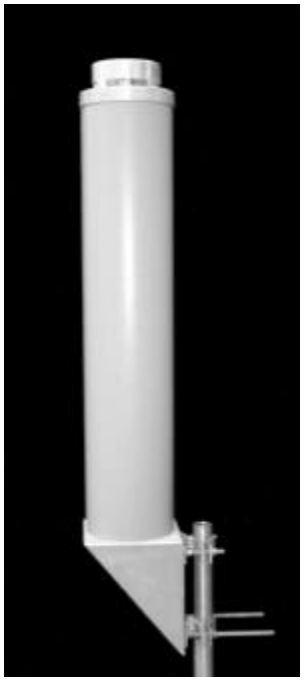


T6

TA-2350-DAB-H

High Power Omnidirectional

2330-2345 MHz



The TA-2350-DAB-H is a high power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz
Gain: 10 dBi
VSWR: 1.4:1 max.
Polarization: Vertical
Power Rating: 2000 W avg., 8000 W peak
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Electrical_Downtilt: 2, 4, 6 degrees
Cross Pol. Discrimination: 13 dB
Null Fill -20 dB (1st Null)
Impedance: 50 ohms nominal
Termination: 7/8" EIA Flange

Typical mid band values. (For details , contact factory)

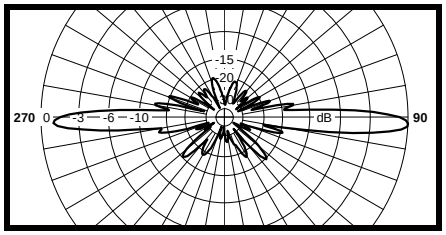
Mechanical Specifications

Length: 64 in. (1625 mm)
Diameter: 8 in. (203 mm)
Weight (Incl. Clamps): 49 lb. (22.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 148 lb. (67 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

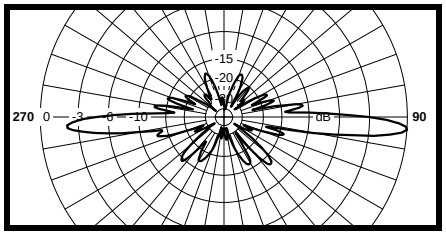
Materials

Radiating Elements: Tin-plated copper on PCB
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

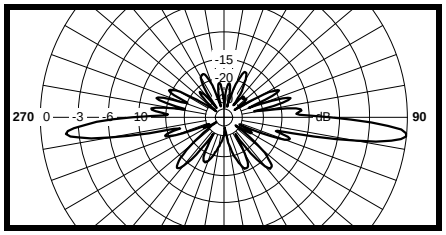
E-Plane



T2



T4

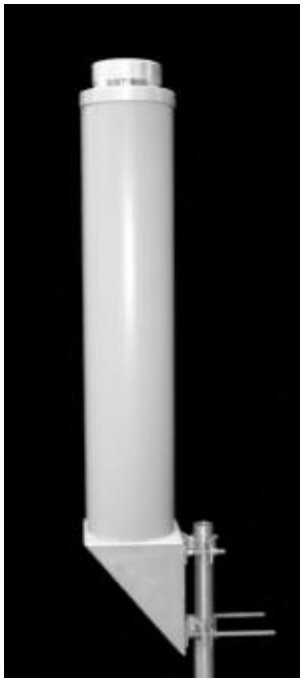


T6

TA-2355-DAB-H

High Power Omnidirectional

2305-2360 MHz



The TA-2355-DAB-H is a high power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2305-2360 MHz
Gain: 10 dBi
VSWR: 1.4:1 max.
Polarization: Vertical
Power Rating: 2000 W avg., 8000 W peak
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Electrical_Downtilt: 2, 4, 6 degrees
Cross Pol. Discrimination: 13 dB
Null Fill: -20 dB (1st Null)
Impedance: 50 ohms nominal
Termination: 7/8" EIA Flange

Typical mid band values. (For details , contact factory)

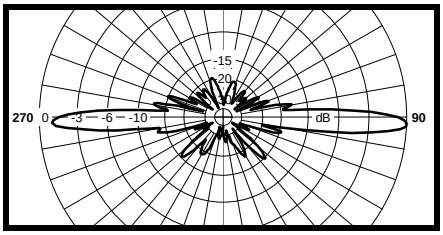
Mechanical Specifications

Length: 64 in. (1625mm)
Diameter: 8 in. (1625mm)
Weight (Incl. Clamps): 49 lb. (22.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 148 lb. (67 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102mm)

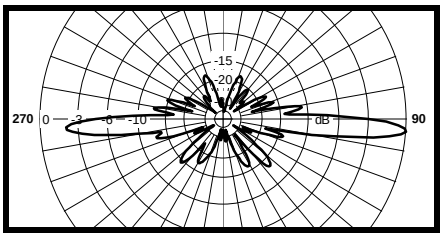
Materials

Radiating Elements: Tin-plated copper on PCB
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

E-Plane



T2



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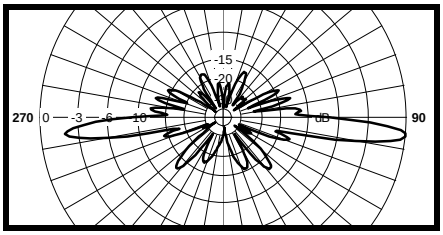
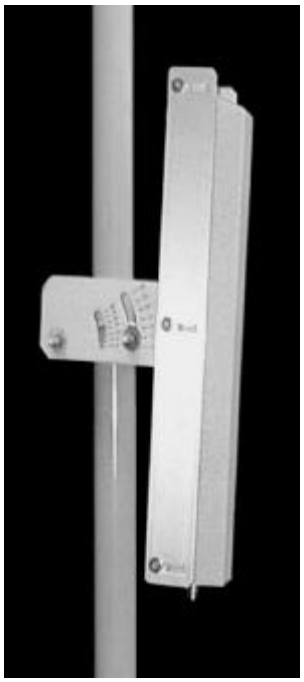


T6

LANtenna Series

TA-2304-ISM Adjustable Sector

2400-2483 MHz



The TA-2304-ISM is a vertically polarized sectoral antenna which has adjustable side panels for 60-160 degree azimuth patterns. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 15 dBi @ 60°, 13 dBi @ 90°
12 dBi @ 120°, 10.5 dBi @ 160°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min.(15 dB @160°)
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

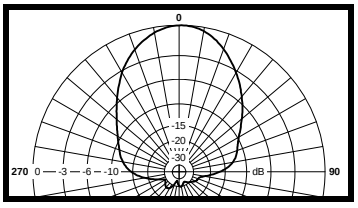
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 43 lb. (19.5 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

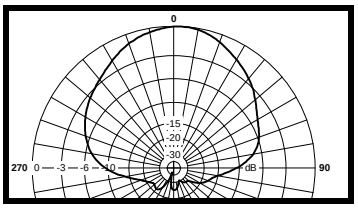
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

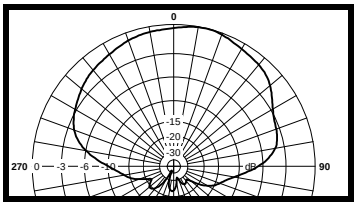
H-Plane



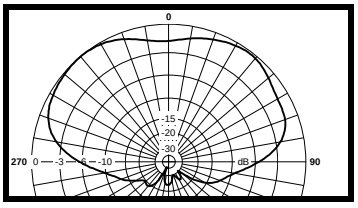
60°



90°

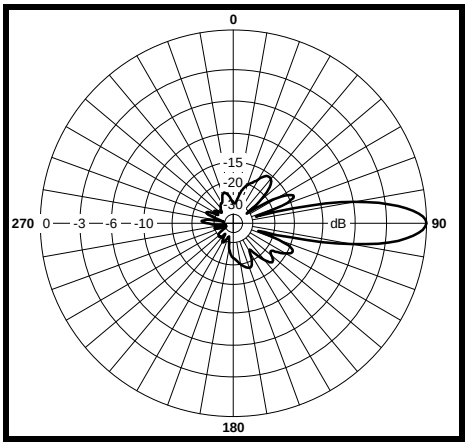


120°



160°

E-Plane



LANtenna Series
TA-2304-45-ISM Sector
2400-2483 MHz

The TA-2304-45-ISM is a vertically polarized sectoral antenna with a fixed 45 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 16 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

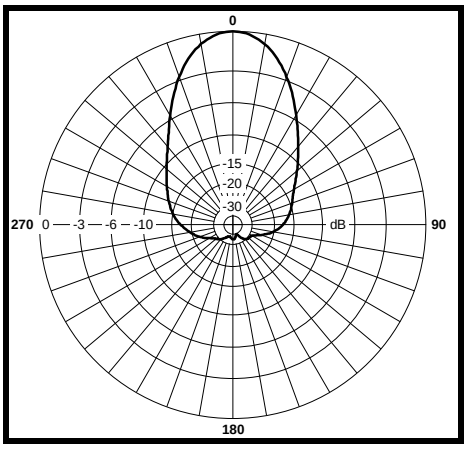
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 6.5 in. (165 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 43 lb. (19.5 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

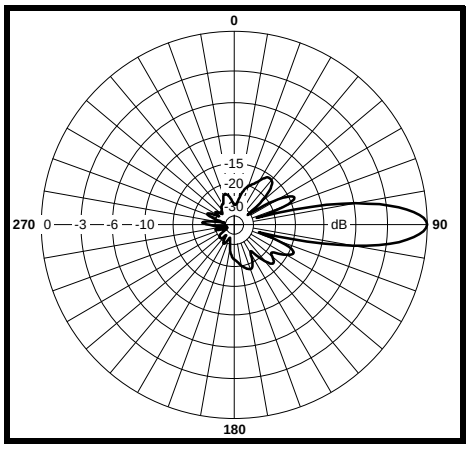
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



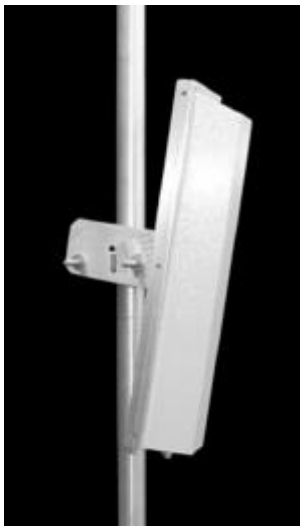
E-Plane



LANtenna Series

TA-2304-180-ISM Sector

2400-2483 MHz



The TA-2304-180-ISM is a vertically polarized sectoral antenna with a fixed 180 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

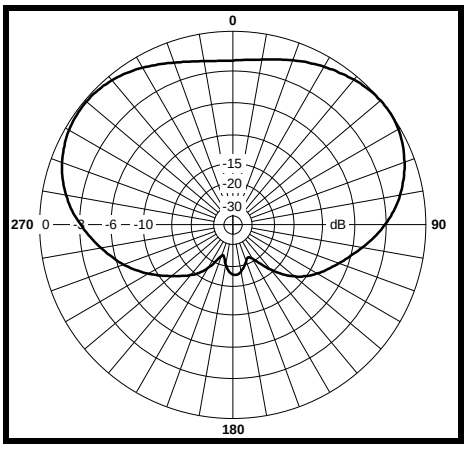
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 43 lb. (19.5 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

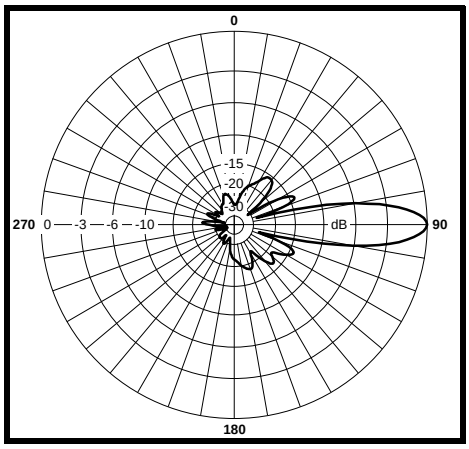
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



LANtenna Series

TA-2304-2-ISM Adjustable Sector

2400-2483 MHz

The TA-2304-2-ISM is a vertically polarized sectoral antenna which has adjustable side panels for 60-160 degree azimuth patterns. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 17.5 dBi @ 60°, 15.5 dBi @ 90°
14.5 dBi @ 120°, 13 dBi @ 160°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 7.2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

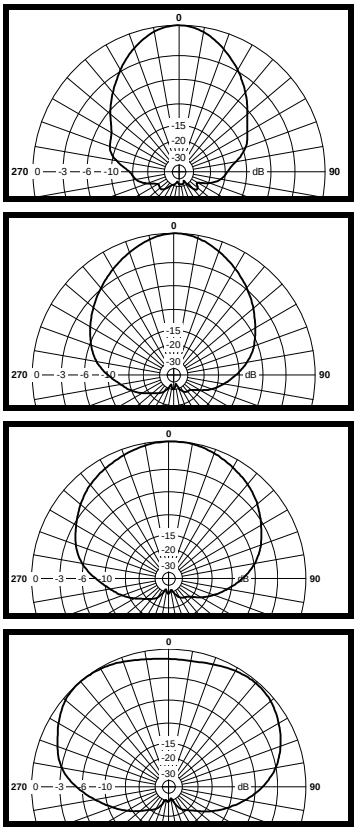
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

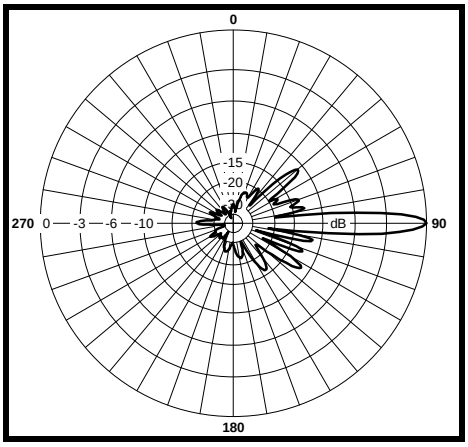
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



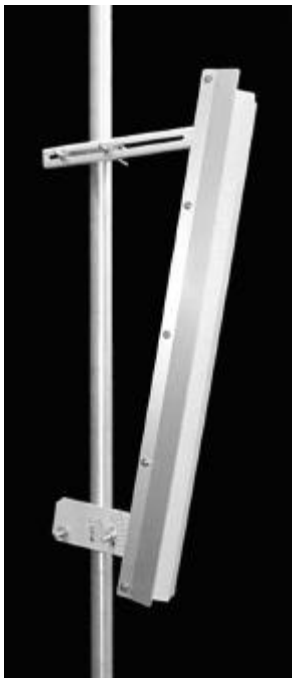
E-Plane



LANtenna Series

TA-2304-2-45-ISM Sector

2400-2483 MHz



The TA-2304-2-45-ISM is a vertically polarized sectoral antenna with a fixed 45 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 18.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 7.2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

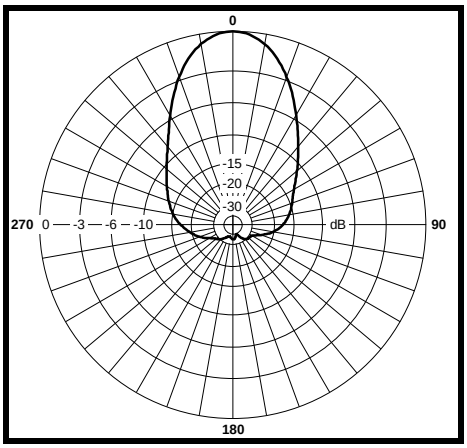
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 6.5 in (165 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

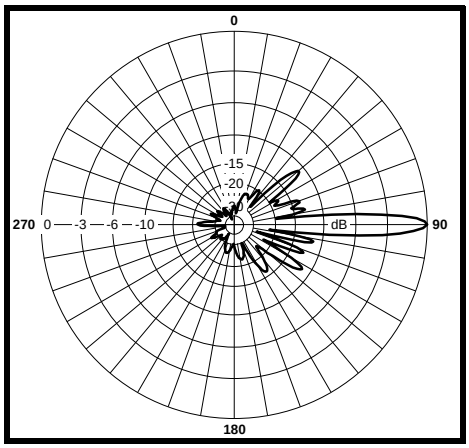
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



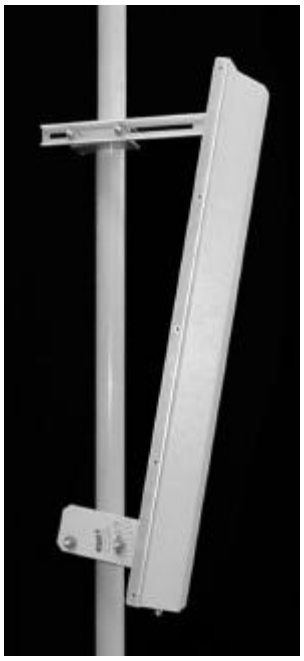
E-Plane



LANtenna Series

TA-2304-2-180-ISM Sector

2400-2483 MHz



The TA-2304-2-180-ISM is a vertically polarized sectoral antenna with a fixed 180 degree pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 12.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 7.2 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

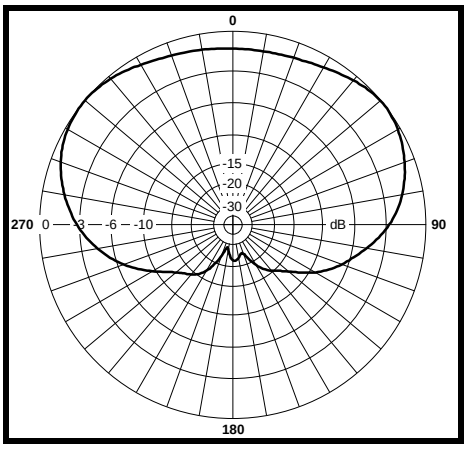
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 86 lb. (39 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

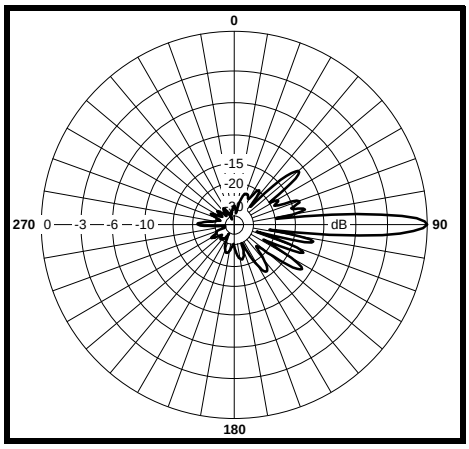
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



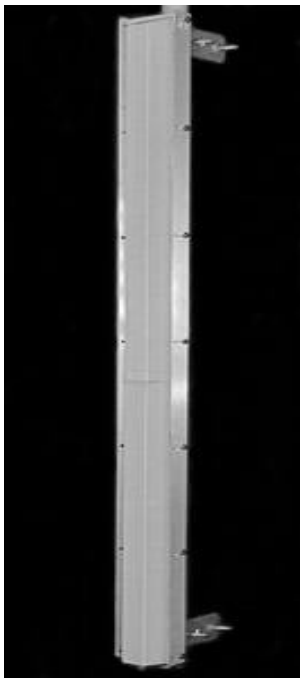
E-Plane



LANtenna Series

TA-2304-4-ISM Adjustable Sector

2400-2483 MHz



The TA-2304-4-ISM is a vertically polarized high gain sectoral antenna which can be ordered with adjustable side panels for 60-160 degree patterns. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 20 dBi @ 60°, 18.5 dBi @ 90°
17 dBi @ 120°, 15.5 dBi @ 160°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min.
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 60, 90, 120, 160 degrees
E-Plane Beamwidth: 3.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

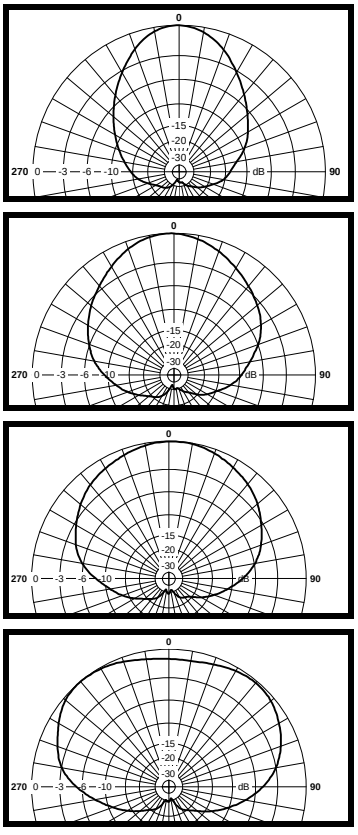
Mechanical Specifications

Length: 71 in. (1803 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 153 lb. (69 kg)
Mechanical Tilt: 0 - 10 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

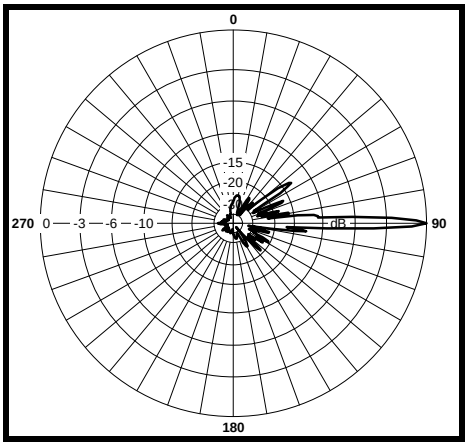
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



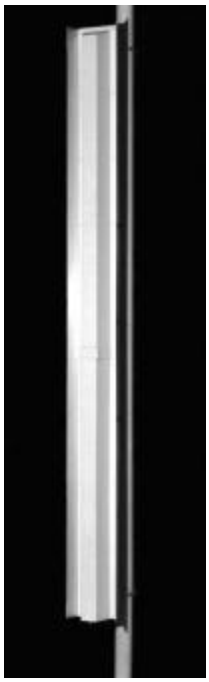
E-Plane



LANtenna Series

TA-2304-4-45-ISM Sector

2400-2483 MHz



The TA-2304-4-45-ISM is a vertically polarized high gain 45 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 21 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 45 degrees
E-Plane Beamwidth: 3.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

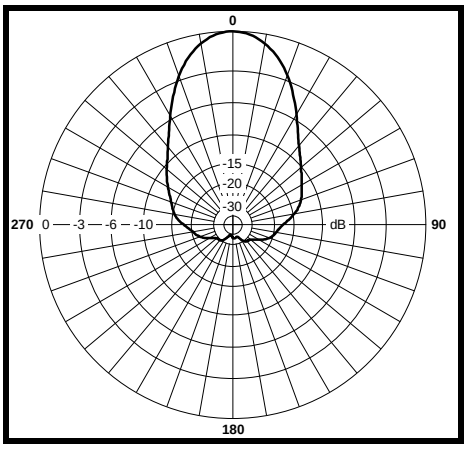
Mechanical Specifications

Length: 71 in. (1803 mm)
Width: 6.5 in. (165 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 153 lb. (69 kg)
Mechanical Tilt: 0 - 10 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

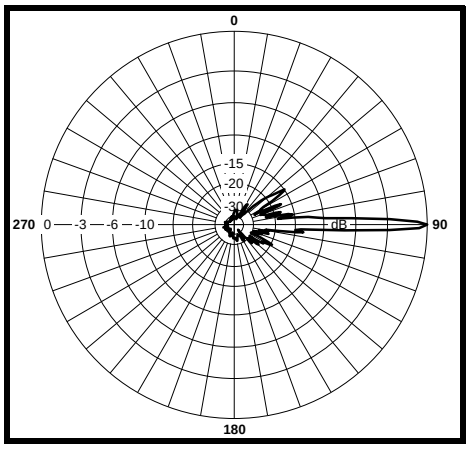
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



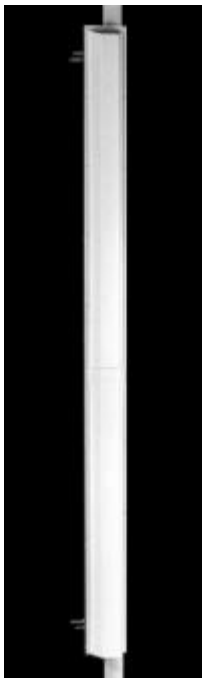
E-Plane



LANtenna Series

TA-2304-4-180-ISM Sector

2400-2483 MHz



The TA-2304-4-180-ISM is a vertically polarized high gain 180 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 15 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 3.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

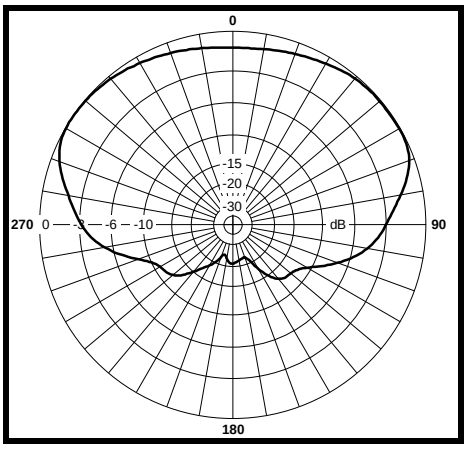
Mechanical Specifications

Length: 71 in. (1803 mm)
Width: 4.9 in. (124 mm)
Depth: 4.6 in. (117 mm)
Weight (incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 153 lb. (69 kg)
Mechanical Tilt: 0 - 10 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

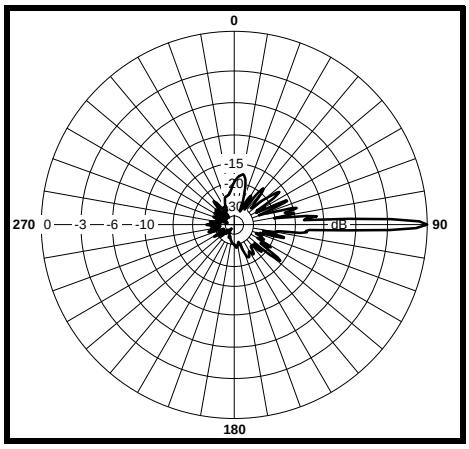
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



LANtenna Series
TA-2404-2-90 Sector
2400-2483 MHz

The TA-2404-2-90 is a vertically polarized 90 degree sectoral antenna. It was designed specifically for wireless data and point-to-multipoint radio applications. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions (icing, salt, air, acid rain, etc.) and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB typical
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 30 degrees
Cross Pol. Discrimination: 12 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

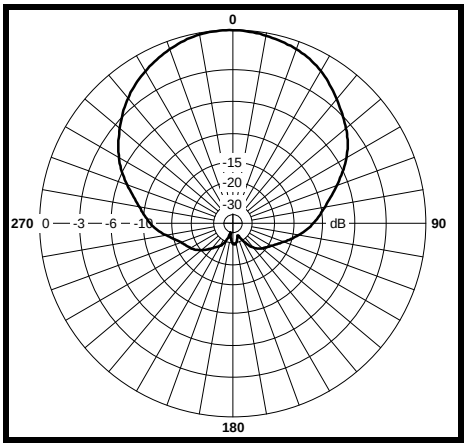
Mechanical Specifications

Length: 12.6 in. (320 mm)
Width: 4.62 in. (117 mm)
Depth: 3.9 in. (100 mm)
Weight (incl. Clamps): 2.2 lb. (1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 25 lb. (11.4 kg)
Mechanical Tilt: 0 +/- 45 degrees
Mounting (O.D.): 1.0 - 2.0 in. (25 - 50 mm)

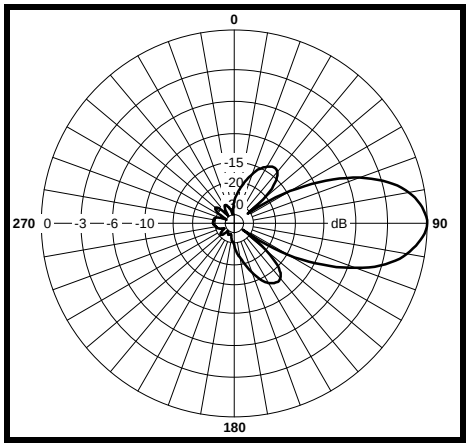
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and Stainless steel

H-Plane



E-Plane



LANtenna Series
TA-2404-2-160 Sector
2400-2483 MHz

The TA-2404-2-160 is a vertically polarized 160 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection, and includes both wall and pipe mounting for increased flexibility during deployment.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 8 +/- 0.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 11 dB min
Polarization: Vertical
Power Rating: 85 Watts
H-Plane Beamwidth: 160 degrees
E-Plane Beamwidth: 35 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

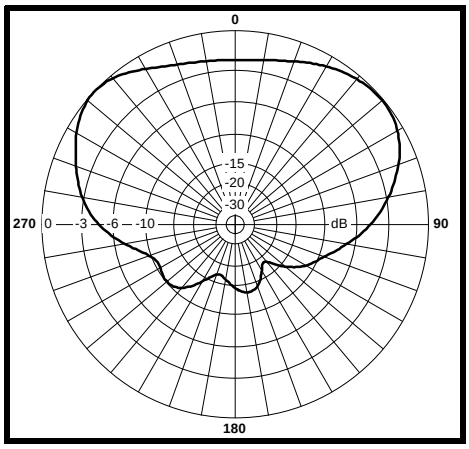
Mechanical Specifications

Length: 7.5 in (295 mm)
Width: 4.75 in. (187 mm)
Depth: 2.56 in. (101 mm)
Weight (incl. Clamps): 2 lb. (0.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 10 lb. (4.5 kg)
Mechanical Tilt: 0+/-30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

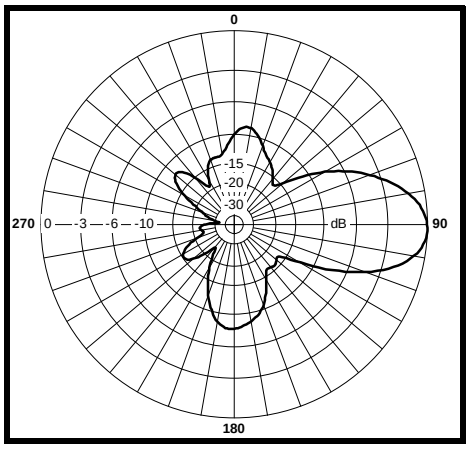
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Stainless steel

H-Plane



E-Plane



LANtenna Series
TA-2404-4-60 Sector
2400-2483 MHz

The TA-2404-4-60 is a vertically polarized 60 degree sectoral antenna. It was designed specifically for wireless data and point-to-multipoint radio applications. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions (icing, salt air, acid rain, etc.) and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 13.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB @ 180°+/- 30°
Polarization: Vertical
Power Rating: 25 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 15 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

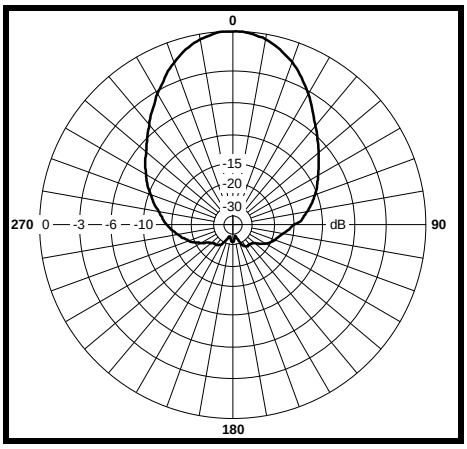
Mechanical Specifications

Length: 20.5 in. (520 mm)
Width: 5.1 in. (129 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 2.5 lb. (1.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 44 lb. (20 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

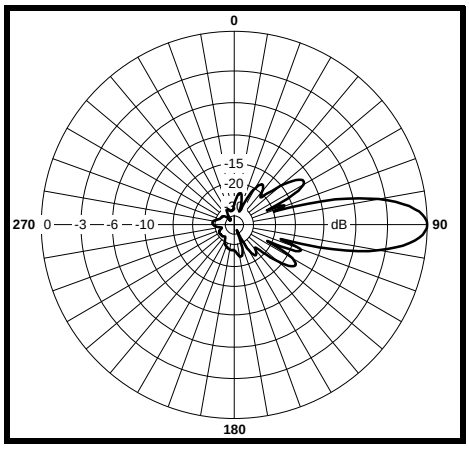
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

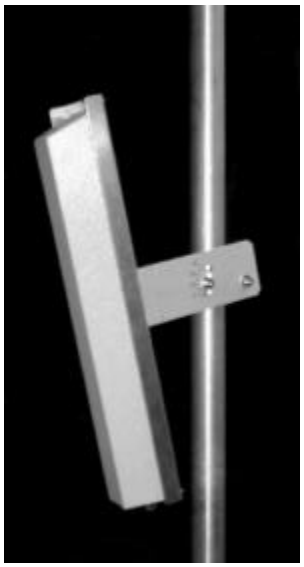
H-Plane



E-Plane



LANtenna Series
TA-2404-4-90 Sector
2400-2483 MHz



The TA-2404-4-90 is a vertically polarized 90 degree sectoral antenna. It was designed specifically for wireless data and point-to-multipoint radio applications. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions (icing, salt air, acid rain, etc.) and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB @ 180°+/- 30°
Polarization: Vertical
Power Rating: 25 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 15 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

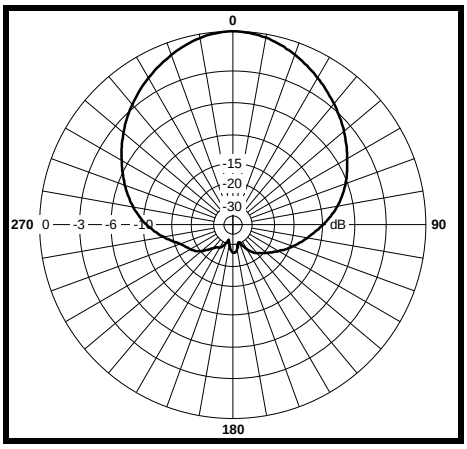
Mechanical Specifications

Length: 20.5 in. (520 mm)
Width: 5.1 in. (129 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 2.5 lb. (1.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 44 lb. (20 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

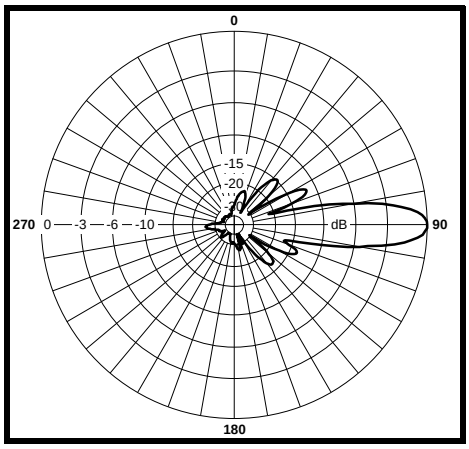
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

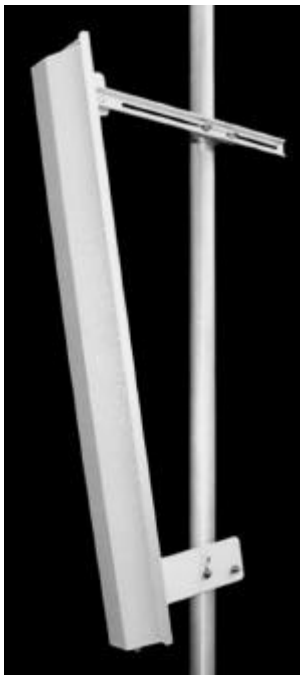
H-Plane



E-Plane



LANtenna Series
TA-2404-8-120 Sector
2400-2483 MHz



The TA-2404-8-120 is a vertically polarized 120 degree sectoral antenna. It was designed specifically for wireless data and point-to-multipoint radio applications. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions (icing, salt air, acid rain, etc.) and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 14 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB typical
Polarization: Vertical
Power Rating: 100 Watts
H-Plane Beamwidth: 120 degrees
E-Plane Beamwidth: 7 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

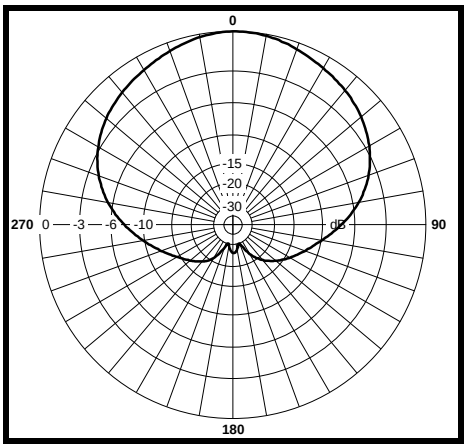
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 5.1 in. (129 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 7.5 lb. (3.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 87 lb. (39.5 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 50 mm)

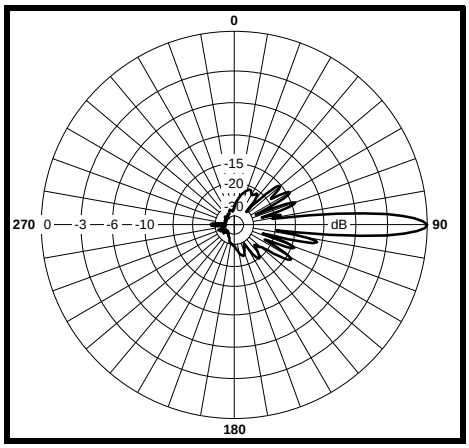
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



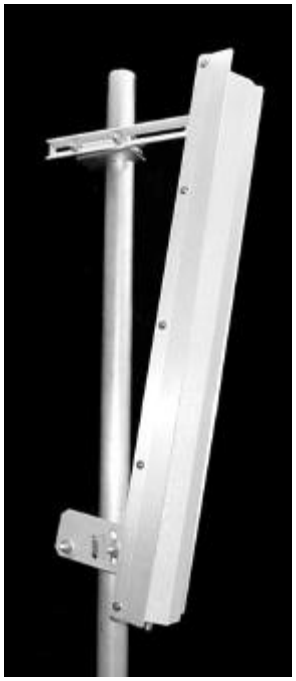
E-Plane



LANtenna Series

TA-2405H-2-45 Sector

2400-2483 MHz



The TA-2405H-2-45 is a high gain 45 degree horizontally polarized sectoral antenna consisting of a broadband dipole array mounted on a solid aluminum reflector and covered with a weatherproof radome. The antenna was designed for operation under severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 17 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB typical
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 8 degrees
E-Plane Beamwidth: 45 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

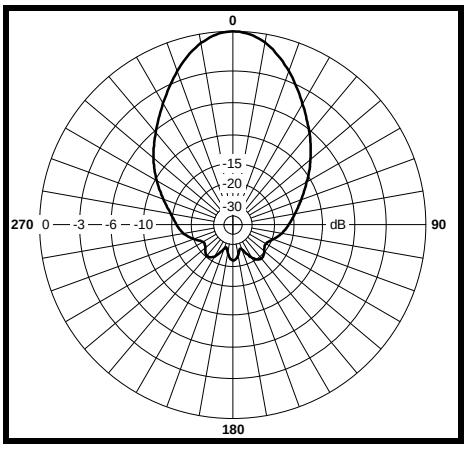
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 4.9 in. (124 mm)
Depth: 3.5 in. (89 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 84 lb. (38.1 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

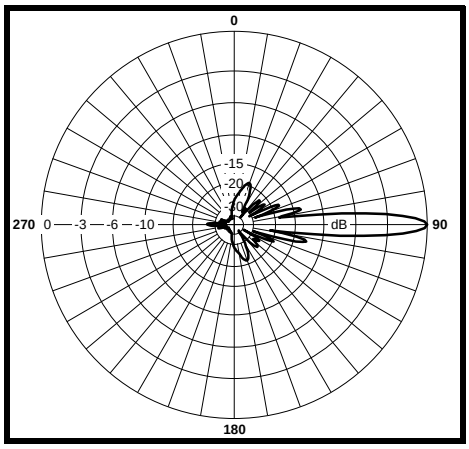
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

E-Plane



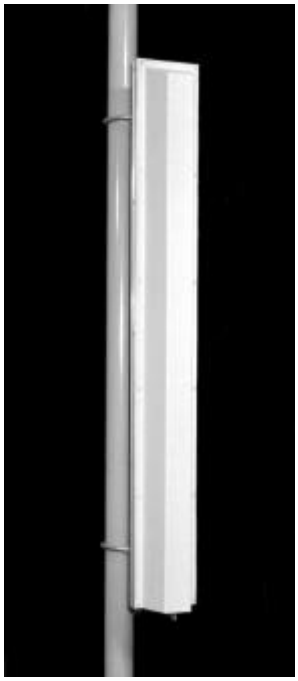
H-Plane



LANtenna Series

TA-2405H-2-60 Sector

2400-2483 MHz



The TA-2405H-2-60 is a high gain 60 degree horizontally polarized sectoral antenna consisting of a broadband dipole array mounted on a solid aluminum reflector and covered with a weatherproof radome. The antenna was designed for operation under severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 16 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB typical
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 8 degrees
E-Plane Beamwidth: 60 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

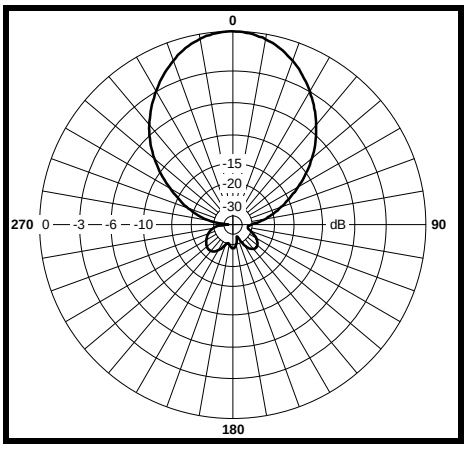
Mechanical Specifications

Length: 40 in. (1016 mm)
Width: 4.7 in. (124 mm)
Depth: 3.5 in. (89 mm)
Weight (incl. Clamps): 8 lb. (3.6 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 84 lb. (38.1 kg)
Mechanical Tilt: 0 - 30 degrees (optional)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

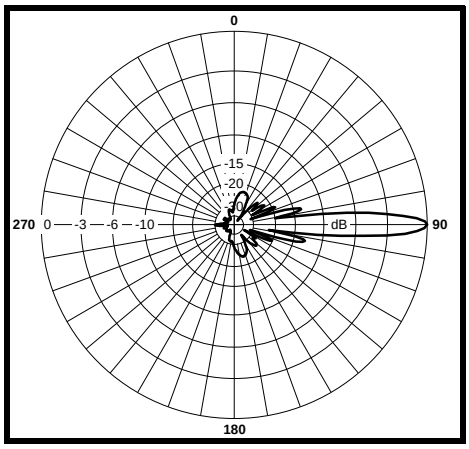
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

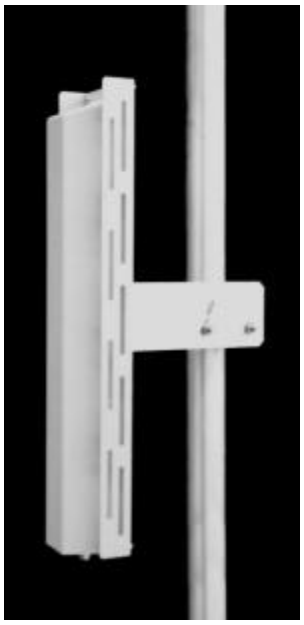
E-Plane



H-Plane



LANtenna Series
TA-2405H-4-60 Sector
2400-2483 MHz



The TA-2405H-4-60 is a horizontally polarized 60 degree sectoral antenna. It was designed specifically for wireless data and point-to-multipoint radio applications. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions (icing, salt air, acid rain, etc.) and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 13.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB @ 180°+/- 30°
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 16 degrees
E-Plane Beamwidth: 60 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

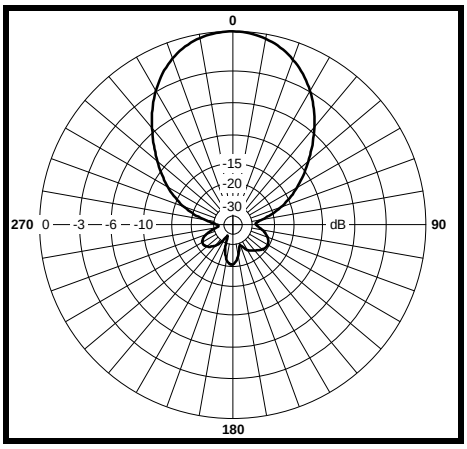
Mechanical Specifications

Length: 20.5 in. (520 mm)
Width: 5.1 in. (129 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 2.5 lb. (1.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 44 lb. (20 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

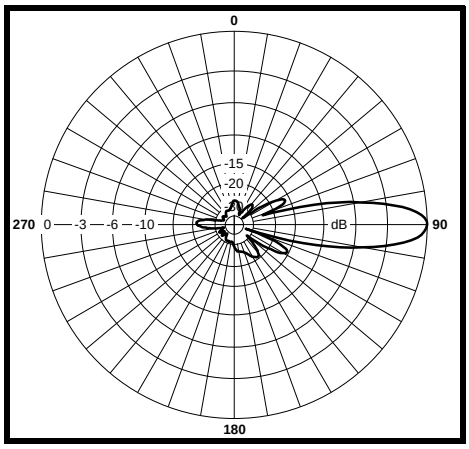
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

E-Plane



H-Plane



LANtenna Series

TA-2405H-4-90 Sector

2400-2483 MHz

The TA-2405H-4-90 is a horizontally polarized 90 degree sectoral antenna. It was designed specifically for wireless data and point-to-multipoint radio applications. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions (icing, salt air, acid rain, etc.) and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB @ 180°+/- 30°
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 16 degrees
E-Plane Beamwidth: 90 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

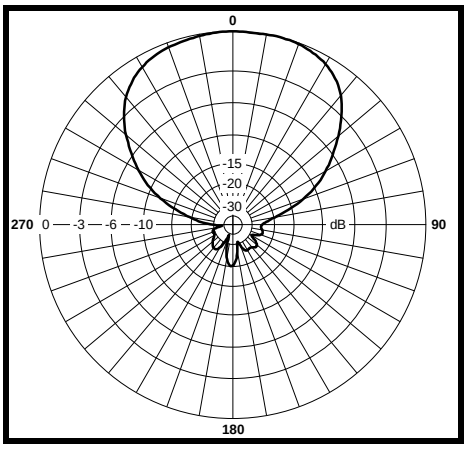
Mechanical Specifications

Length: 20.5 in. (520 mm)
Width: 7.8 in. (198 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 2.5 lb. (1.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 69 lb. (31 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

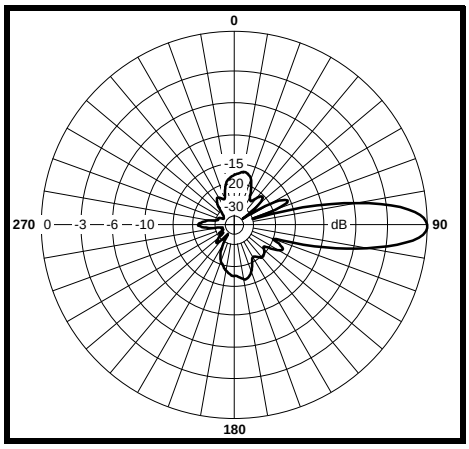
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

E-Plane



H-Plane



LANtenna Series
TA-2407P Panel
2400-2483 MHz

The TA-2407P is a compact, light-weight, vertically polarized panel antenna intended for mounting onto the back of a laptop computer for special applications in the ISM band. The antenna consists of a printed patch array enclosed in a black painted aluminum cavity with a black UV stabilized ASA radome.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 14 +/- 1 dBi
VSWR: 2:1 max.
Front to Back Ratio: 25 dB min. (azimuth)
Polarization: Vertical
Power Rating: 20 Watts
H-Plane Beamwidth: 27 +/- 2 degrees
E-Plane Beamwidth: 36 +/- 2 degrees
Cross Pol. Discrimination: 13 dB min.
Impedance: 50 ohms nominal
Termination: SMA female

Typical mid band values. (For details , contact factory)

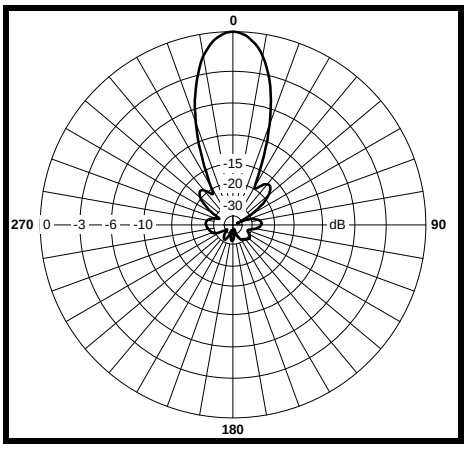
Mechanical Specifications

Length: 8 in. (203 mm)
Width: 11 in. (279.4 mm)
Depth: 0.44 in. (11 mm)
Weight (incl. Clamps): 0.7 lb. (0.32 kg)
Rated Wind Velocity: N/A
Hor. Thrust at rated wind: N/A
Mechanical Tilt: N/A
Mounting (O.D.): N/A

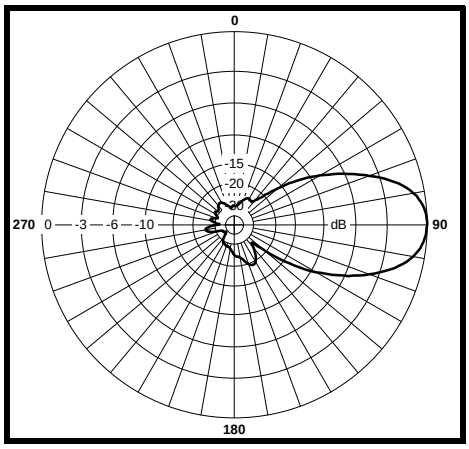
Materials

Radiating Elements: Copper
Reflector: Painted aluminum
Radome: Textured Black ABS
Clamps: Hook & Loop Velcro

H-Plane



E-Plane



LANtenna Series
TA-2408 Panel
2400-2483 MHz

The TA-2408 is a vertically or horizontally polarized panel antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 17 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB typical
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 22 degrees
E-Plane Beamwidth: 22 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

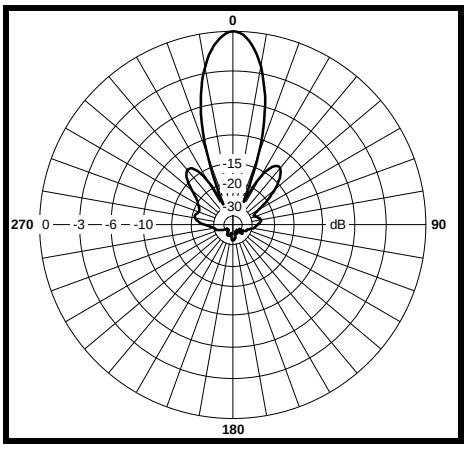
Mechanical Specifications

Length: 12.75 in. (324 mm)
Width: 13.6 in. (345 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 7 lb. (3.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 75 lb. (34.0 kg)
Mechanical Tilt: 0 +/- 11 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

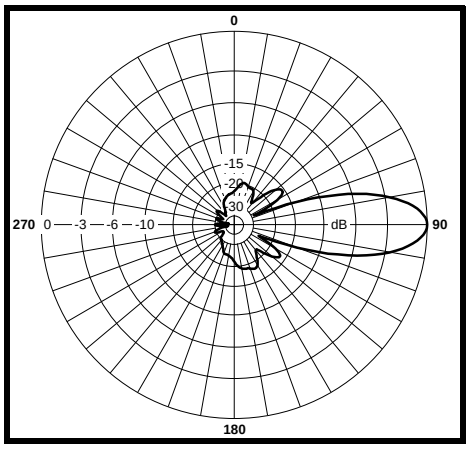
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



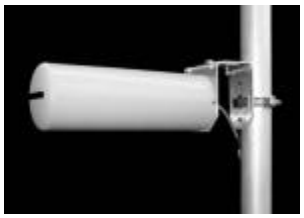
E-Plane



LANtenna Series

TA-2411 Yagi

2400-2483 MHz



The TA-2411 is a vertically or horizontally polarized yagi antenna. The antenna consists of a printed broadband yagi enclosed in a UV stabilized ASA radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 11.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 15 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 47 degrees
E-Plane Beamwidth: 42 degrees
Cross Pol. Discrimination: 15 dB
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

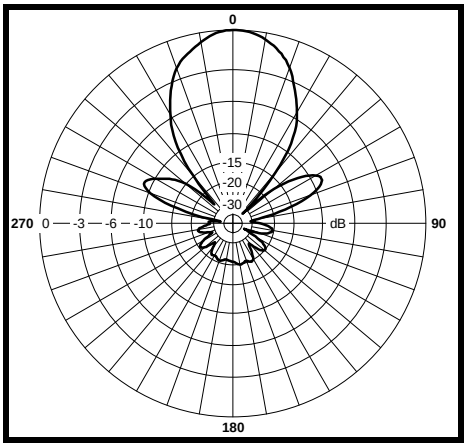
Mechanical Specifications

Length: 10.5 in. (267 mm)
Diameter: 3 in. (76 mm)
Weight (Incl. Clamps): 2 lb. (0.9 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 9 lb. (4 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

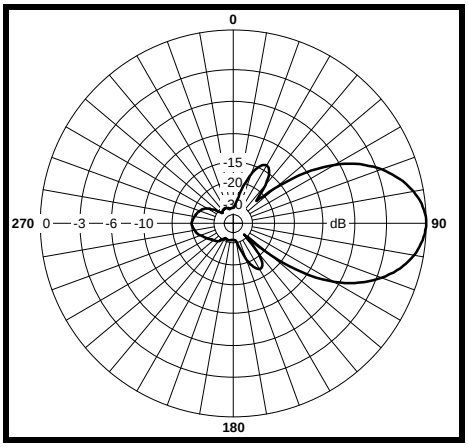
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



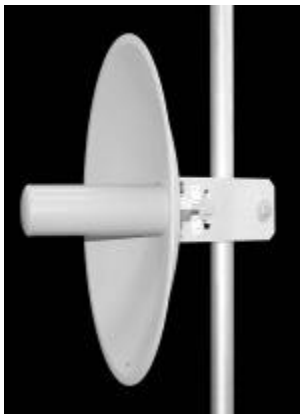
E-Plane



LANtenna Series

TA-2418 Solid Parabolic

2400-2483 MHz



TA-2418

TA-2418R

The TA-2418 is an 18 inch diameter solid parabolic antenna. The antenna feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-2418R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 19 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 18 degrees
E-Plane Beamwidth: 20 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

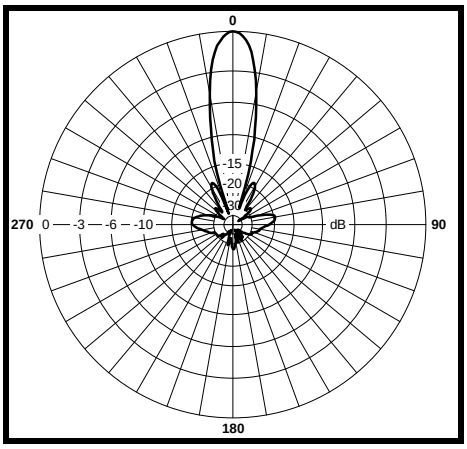
Mechanical Specifications

Diameter: 19.25 in. (489 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 136 lb. (61.8 kg)
with radome: 60 lb. (31.4 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

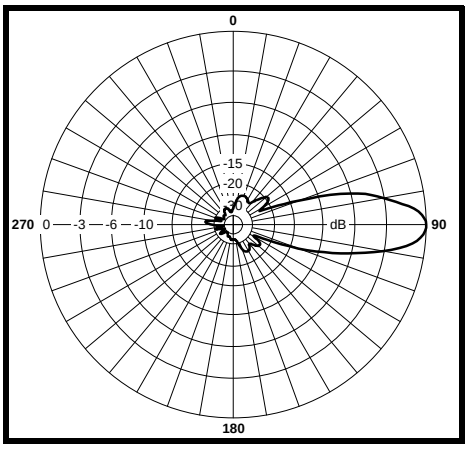
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



LANtenna Series
TA-2424 Solid Parabolic
2400-2483 MHz

TA-2424

TA-2424R

The TA-2424 is a 24 inch diameter solid parabolic antenna. The antenna feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-2424R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 21 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 13.5 degrees
E-Plane Beamwidth: 15 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

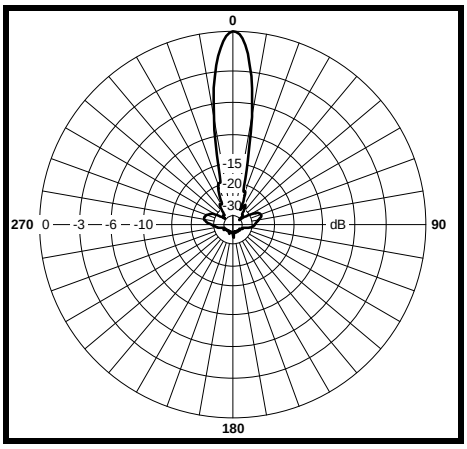
Mechanical Specifications

Diameter: 25.25 in. (489 mm)
Depth: 8.0 in. (204 mm)
Weight (Incl. Clamps): 20 lb. (9.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 234 lb. (106.4 kg)
with radome: 120 lb (54.4 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

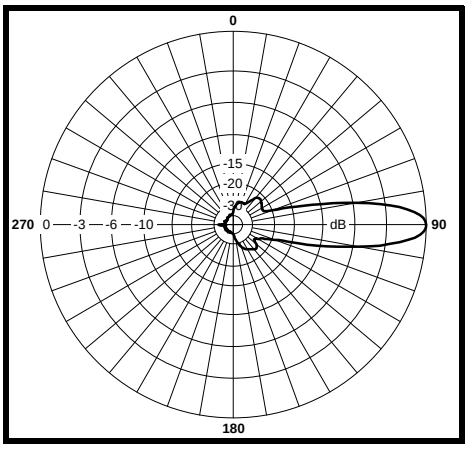
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



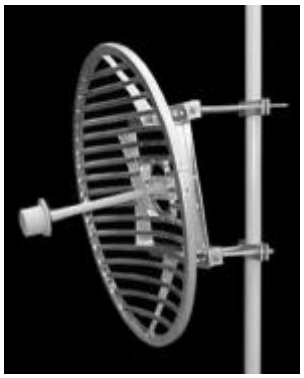
E-Plane



LANtenna Series

TA-2436 Grid Parabolic

2400-2483 MHz



The TA-2436 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is at DC ground to aid in lightning protection. This antenna is extremely rugged and is designed to provide superior performance in any conditions.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 24.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 9 degrees
E-Plane Beamwidth: 10 degrees
Cross Pol. Discrimination: 30 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

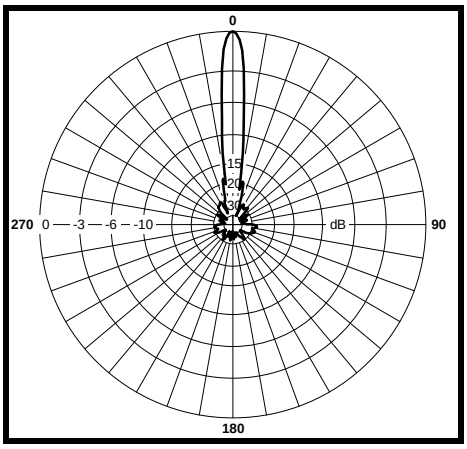
Mechanical Specifications

Diameter: 38.5 in. (978 mm)
Weight (Incl. clamps): 40 lb. (18.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 177 lb. (80.5 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

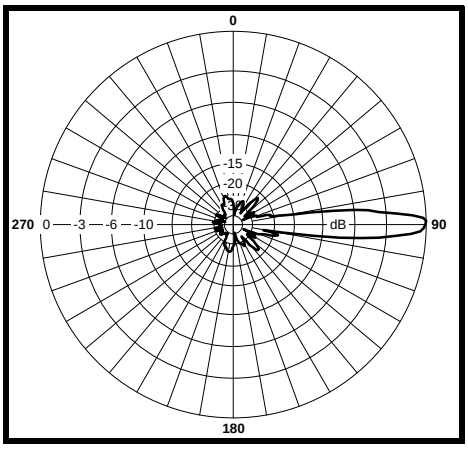
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

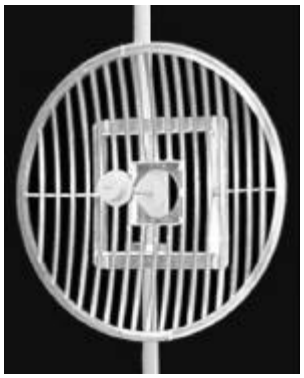
H-Plane



E-Plane



LANtenna Series
TA-2448 Grid Parabolic
2400-2483 MHz



The TA-2448 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is at DC ground to aid in lightning protection. This antenna is extremely rugged and is designed to provide superior performance in any conditions.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 27 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB typical
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 8.6 degrees
E-Plane Beamwidth: 7.5 degrees
Cross Pol. Discrimination: 30 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

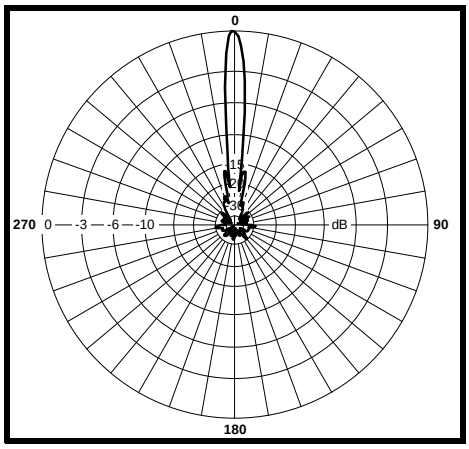
Mechanical Specifications

Diameter: 50.5 in. (1283 mm)
Weight (Incl. clamps): 50 lb. (22.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 304 lb. (138.2 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

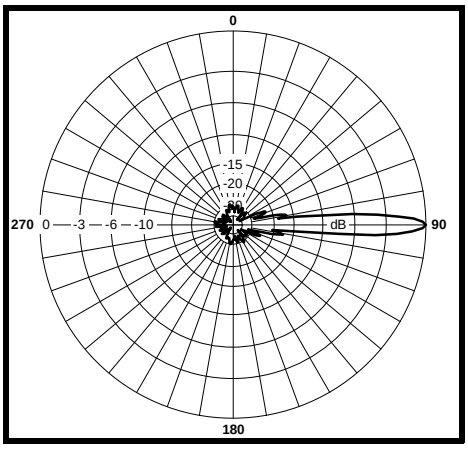
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane



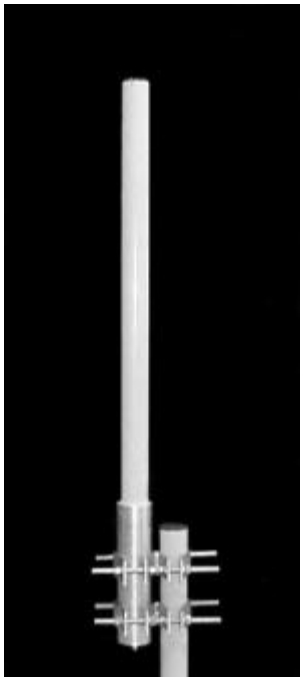
E-Plane



LANtenna Series

TA-2450 Omnidirectional

2400-2483 MHz



The TA-2450 is a 10 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

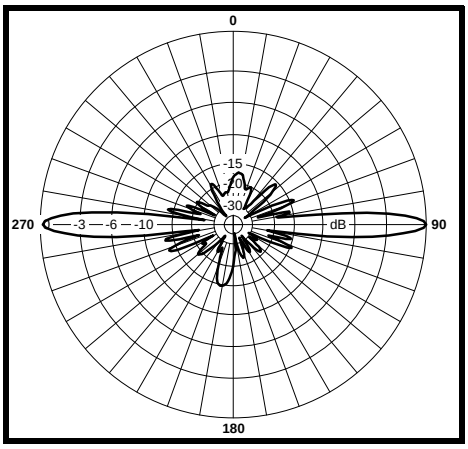
Mechanical Specifications

Length: 48 in. (1219 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 15 lb. (6.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 31 lb. (14.1 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

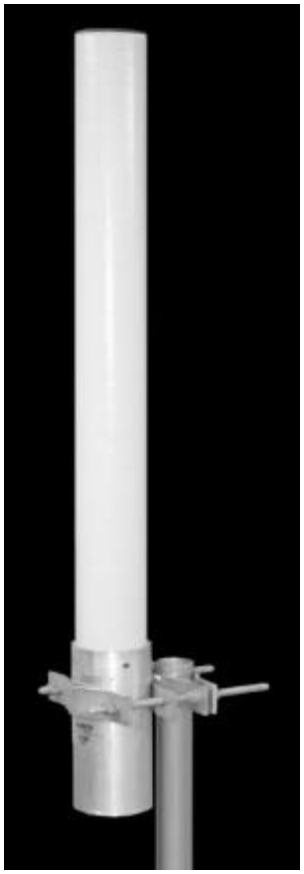
Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

E-Plane



LANtenna Series
TA-2450H Omnidirectional
2400-2483 MHz



The TA-2450H is a 9.5 dBi horizontally polarized omnidirectional antenna designed specifically for the 2.4 GHz ISM band. Pattern shaping and null fill provide optimum coverage while superior cross polarization discrimination allows operators to provide service in areas congested with vertically polarized systems. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 9.5 dBi
VSWR: 1.6:1 max.
Polarization: Horizontal
Power Rating: 1 Watt
H-Plane Beamwidth: 7 degrees
E-Plane Beamwidth: 360 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

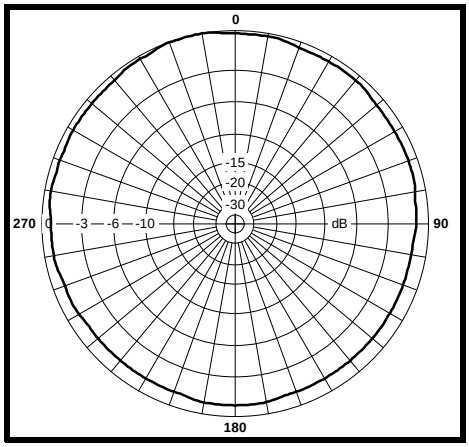
Mechanical Specifications

Length: 51 in. (1295 mm)
Diameter: 3 in. (76 mm)
Weight (Incl. Clamps): 12 lb. (5.4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 44 lb (19.9 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

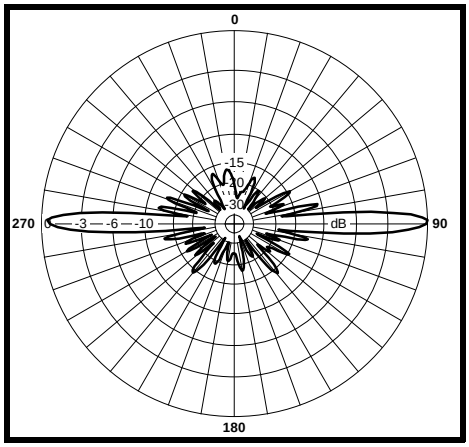
Materials

Radiating Elements: Plated Copper on PCB
Radome: Gray UV stabilized fiberglass
Clamps: EDZ steel

E-Plane



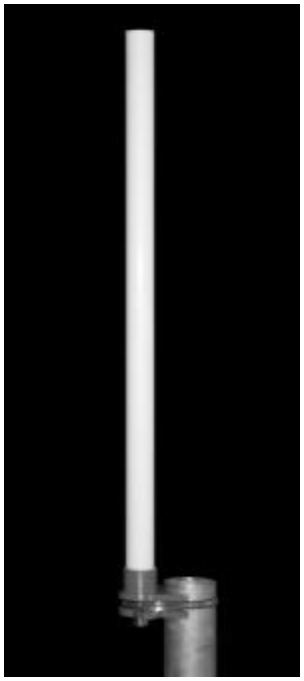
H-Plane



LANtenna Series

TA-2460 Omnidirectional

2400-2483 MHz



The TA-2460 is an 8.5 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 8.5 +/- 0.5 dBi
VSWR: 2:1 max.
Polarization: Vertical
Power Rating: 125 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 14.5 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

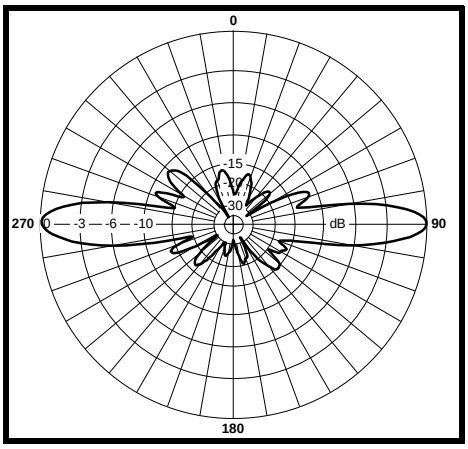
Mechanical Specifications

Length: 24 in approx. (610 mm)
Diameter: 1.0 in (25 mm)
Weight (Incl. Clamps): 1 lb. (0.45 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 6.8 lb. (3.1 kg)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

Materials

Radiating Elements: Plated copper on PCB
Radome: White UV stabilized fiberglass
Clamps: Stainless steel

E-Plane



TA-2503 Panel

2485-2690 MHz

The TA-2503 is a lower gain, vertically or horizontally polarized panel antenna incorporating a broadband full wave dipole in an aluminum base and UV stabilized radome. It is designed for severe weather conditions. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 12 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB typical
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 50 degrees
E-Plane Beamwidth: 45 degrees
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

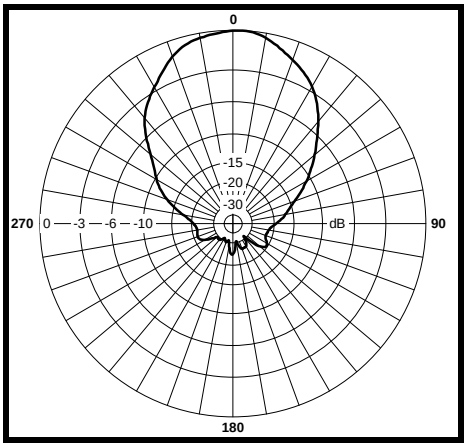
Mechanical Specifications

Length: 13.5 in. (343 mm)
Width: 6.75 in. (172 mm)
Depth: 2.75 in. (69.85 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 41 lb. (18.6 kg)
Mechanical Tilt: 0 +/- 11 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

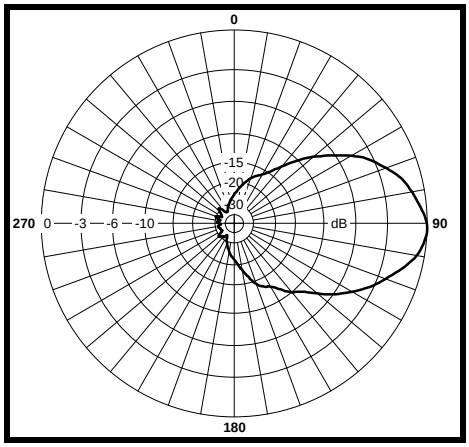
Materials

Radiating Elements: Irridited aluminum
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-2504-8 Adjustable Sector

2500-2700 MHz

The TA-2504-8 is a medium-gain vertically polarized sectoral antenna which has adjustable side panels to provide a 60 or a 90 degree azimuth pattern. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2500-2700 MHz
Gain: 16.5 dBi @ 60°, 15.5 dBi @ 90°
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB
Polarization: Vertical
Power Rating: 25 Watts
H-Plane Beamwidth: 60, 90 degrees
E-Plane Beamwidth: 8 degrees
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 18 dB (azimuth)
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

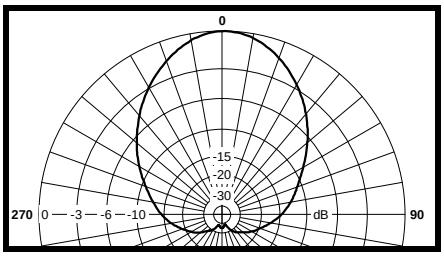
Mechanical Specifications

Length: 39.4 in. (1000mm)
Width: 5.1 in. (129.5 mm)
Depth: 3.75 in. (95.25 mm)
Weight (incl. Clamps): 9 lb. (4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 87 lb. (39.5 kg)
Mechanical Tilt: 0 - 10 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

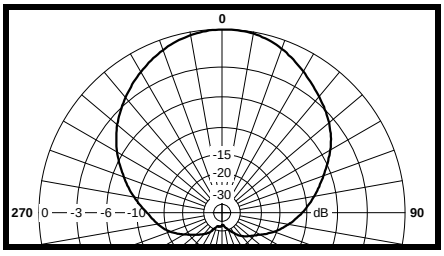
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ Steel (HDG Steel Opt)

H-Plane

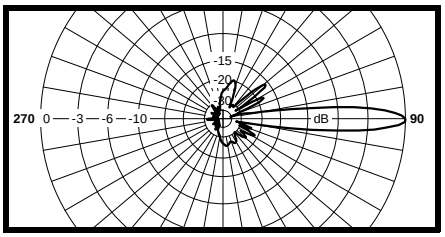


60°

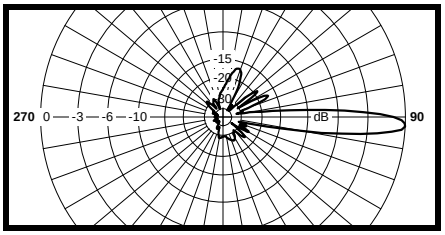


90°

E-Plane



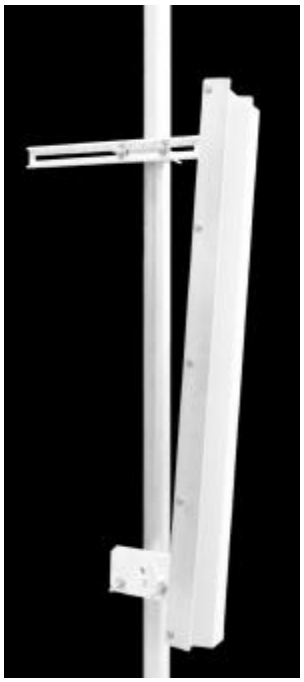
T0



T2

TA-2504-8-50 Sector

2500-2700 MHz



The TA-2504-8-50 is a medium-gain vertically polarized 50 degree sectoral antenna. It consists of a linear dipole array with fixed side panels to achieve the correct beamwidth. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2500-2700 MHz
Gain: 17.5 +/- 1 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 50° +/- 5°
E-Plane Beamwidth: 8° +/- 1°
Electrical Downtilt: 0, 2 degrees
Cross Pol. Discrimination: 15 dB (azimuth)
Impedance: 50 ohms nominal
Termination: N female (7/16 optional)

Typical mid band values. (For details , contact factory)

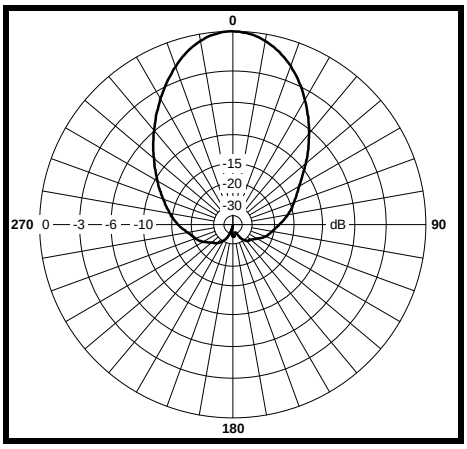
Mechanical Specifications

Length: 39.4 in. (1000 mm)
Width: 5.5 in. (140 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 9 lb. (4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 93 lb. (42 kg)
Mechanical Tilt: 0 - 10°, 1° increments
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

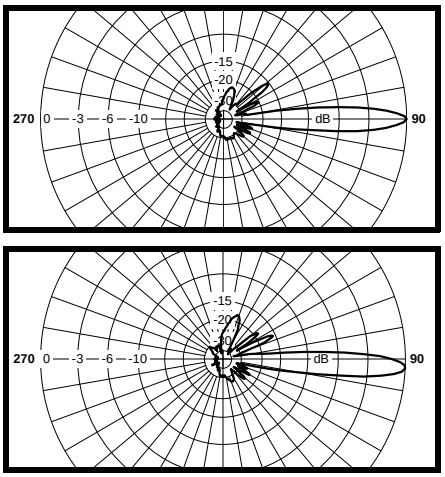
Materials

Radiating Elements: Tin-Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ Steel (HDG Steel Opt)

H-Plane

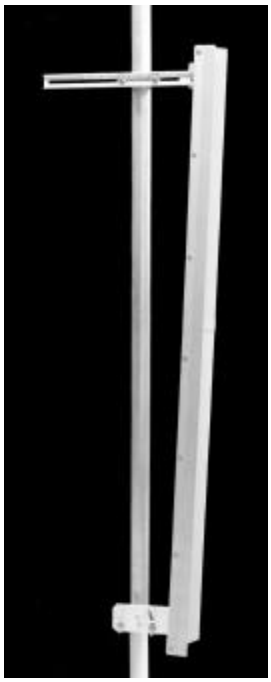


E-Plane



TA-2504-16-50 Sector

2500-2700 MHz



The TA-2504-16-50 is a high-gain vertically polarized 50 degree sectoral antenna. It consists of a linear dipole array with fixed side panels to achieve the correct beamwidth. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2500-2700 MHz
Gain: 19.5 +/- 1 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 50° +/- 5°
E-Plane Beamwidth: 5° +/- 0.5°
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

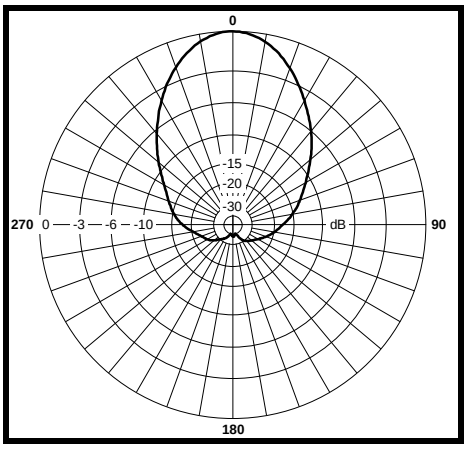
Mechanical Specifications

Length: 70.5 in. (1792 mm)
Width: 5.5 in. (140 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 15 lb. (6.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 166 lb. (75 kg)
Mechanical Tilt: 0 - 10°, in 1° increments
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

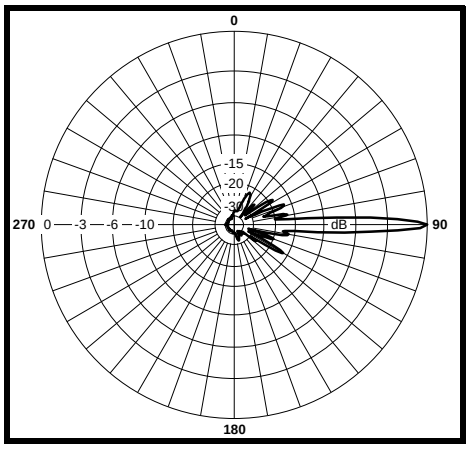
Materials

Radiating Elements: Tin-Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

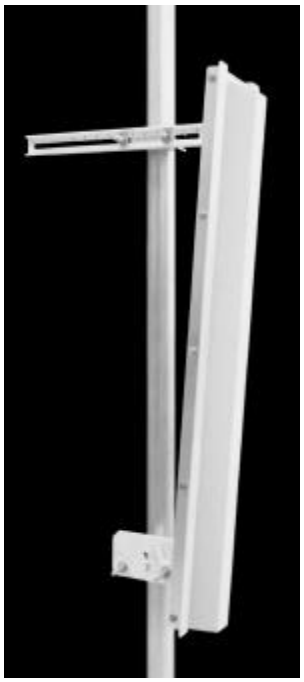


E-Plane



TA-2505H-8 Adjustable Sector

2500-2700 MHz



The TA-2505H-8 is a medium-gain horizontally polarized sectoral antenna that is field adjustable to either 50 or 60 degrees. It consists of a linear dipole array with fixed side panels to achieve the correct beamwidth. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2500-2700 MHz
Gain: 17.5 +/- 1 dBi @ 50°
16.0 +/- 1 dBi @ 60°
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min. @ 50°
24 dB min. @ 60°
Polarization: Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 8° +/- 1°
E-Plane Beamwidth: 50° +/- 5°, 60° +/- 5°
Cross Pol. Discrimination: 20 dB (azimuth)
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

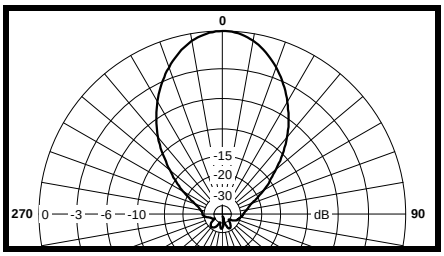
Mechanical Specifications

Length: 39.4 in. (1000 mm)
Width: 8 in. (203 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 9 lb. (4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 84 lb. (38 kg)
Mechanical Tilt: 0 - 10°, 1° increments
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

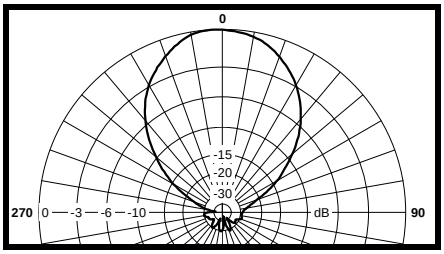
Materials

Radiating Elements: Tin-Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

E-Plane

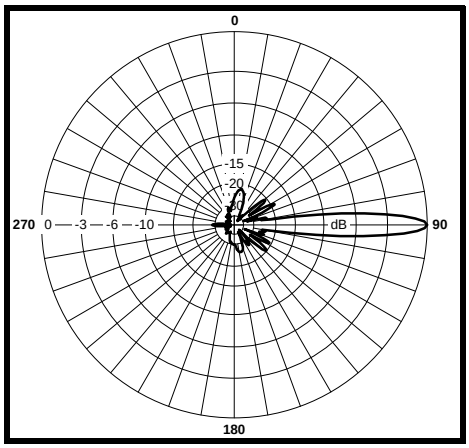


50°



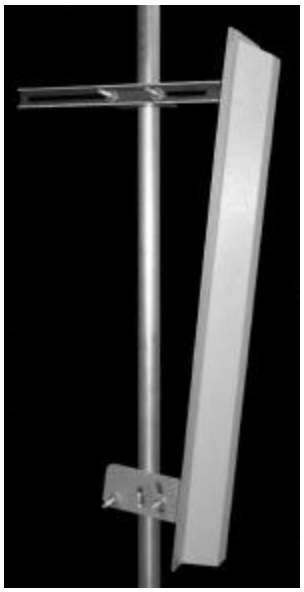
60°

H-Plane



TA-2505H-8-90 Sector

2500-2700 MHz



The TA-2505H-8-90 is a medium-gain horizontally polarized 90 degree sectoral antenna. It consists of a linear dipole array with fixed side panels to achieve the correct beamwidth. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2500-2700 MHz
Gain: 14.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 19 dB min.
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 8 degrees
E-Plane Beamwidth: 90 degrees
Cross Pol. Discrimination: 20 dB @ 90° +/- 5
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

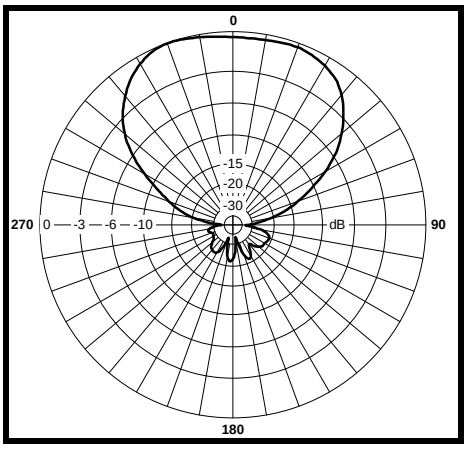
Mechanical Specifications

Length: 39.4 in. (1000 mm)
Width: 8 in. (203 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 9 lb. (4 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 84 lb. (38 kg)
Mechanical Tilt: 0 - 10°, 1° increments
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

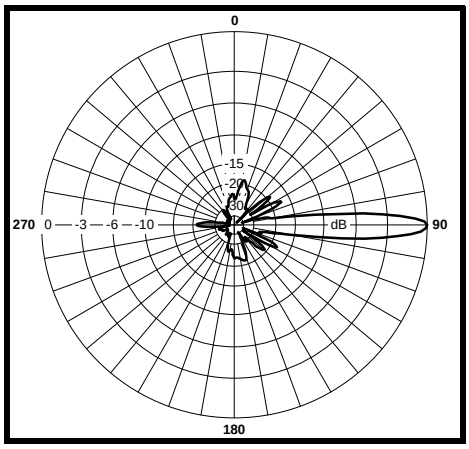
Materials

Radiating Elements: Tin-Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

E-Plane

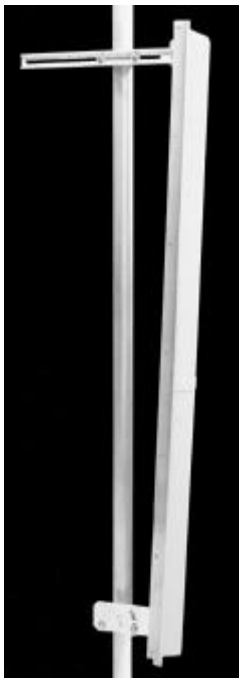


H-Plane



TA-2505H-16-50 Sector

2500-2700 MHz



The TA-2505H-16-50 is a high-gain horizontally polarized 50 degree sectoral antenna. It consists of a linear dipole array with fixed side panels to achieve the correct beamwidth. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 2500-2700 MHz
Gain: 19.5 +/- 0.5 dB
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 5° +/- 0.5°
E-Plane Beamwidth: 50° +/- 5°
Cross Pol. Discrimination: 20 dB (azimuth)
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

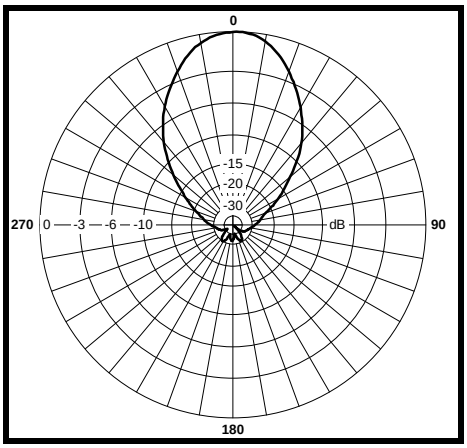
Mechanical Specifications

Length: 70.5 in. (1792 mm)
Width: 8 in. (203 mm)
Depth: 3.75 in. (95 mm)
Weight (incl. Clamps): 16 lb. (7.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 243 lb. (110 kg)
Mechanical Tilt: 0 - 10°, 1° increments
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

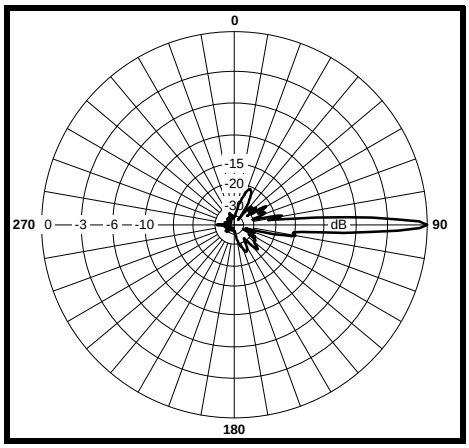
Materials

Radiating Elements: Tin-Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

E-Plane



H-Plane



TA-2506 Panel

2485-2690 MHz

The TA-2506 is a medium gain, vertically or horizontally polarized panel antenna. The antenna has relatively broad E & H plane patterns and is designed for severe weather conditions. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 16 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB typical
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 26 degrees
E-Plane Beamwidth: 21 degrees
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

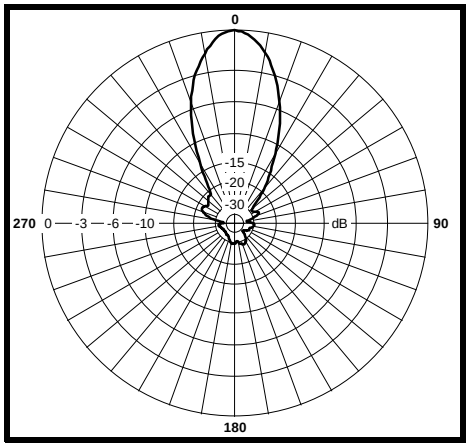
Mechanical Specifications

Length: 14 in. (356 mm)
Width: 12 in. (305 mm)
Depth: 4 in. (102 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 73 lb. (33.2 kg)
Mounting (O.D.): 1.9 in. (48.3 mm)

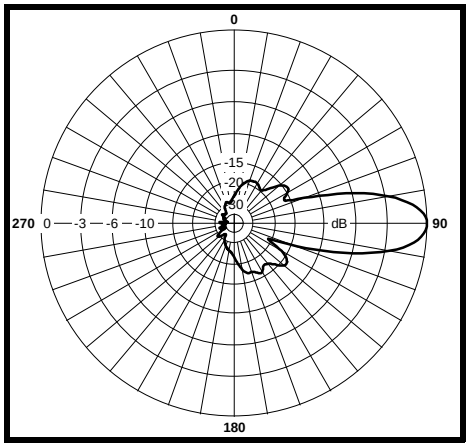
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane

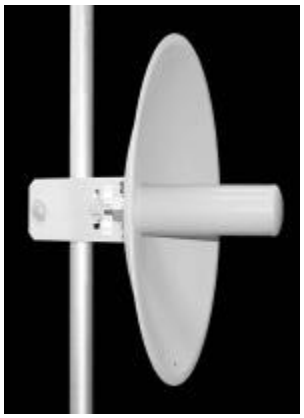


E-Plane



TA-2518 Solid Parabolic

2485-2690 MHz



TA-2518

TA-2518R

The TA-2518 is an 18 inch diameter solid parabolic antenna. The antenna feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-2518R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 19 dBi
VSWR: 1.35:1 (1.5:1 for TA-2518R)
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 18 degrees
E-Plane Beamwidth: 20 degrees
Cross Pol. Discrimination: 25 dB
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

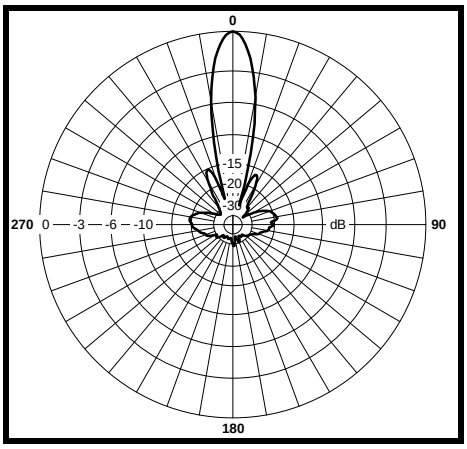
Mechanical Specifications

Diameter: 19.25 in. (489 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 12 lb. (5.5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 136 lb. (61.8 kg)
with radome: 69 lb. (31.4 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

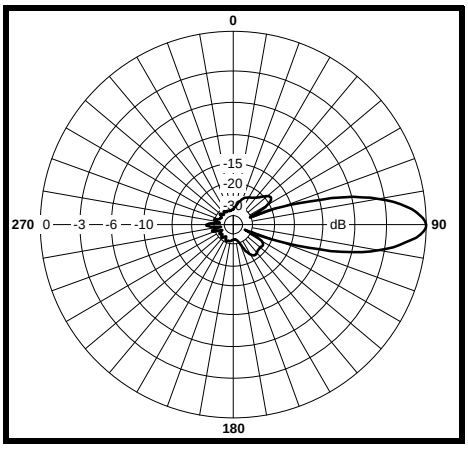
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-2524 Solid Parabolic

2485-2690 MHz

TA-2524

TA-2524R

The TA-2524 is a 24 inch diameter solid parabolic antenna. The antenna feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-2524R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 21 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 28 dB min.
Polarization: Vertical or Horizontal
Power Rating: 100 Watts
H-Plane Beamwidth: 13.5 degrees
E-Plane Beamwidth: 15 degrees
Cross Pol. Discrimination: 25 dB
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

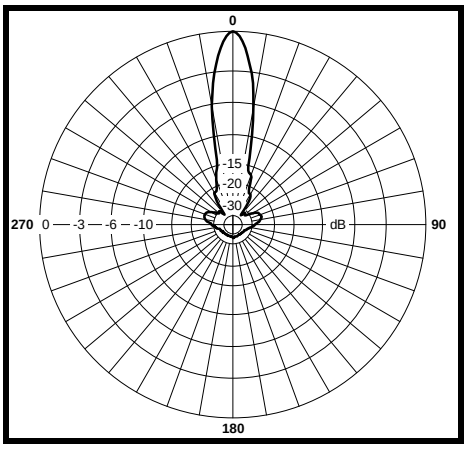
Mechanical Specifications

Diameter: 25.25 in. (641 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 20 lb. (9.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 234 lb. (106.4 kg)
with radome: 120 lb. (54.5 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

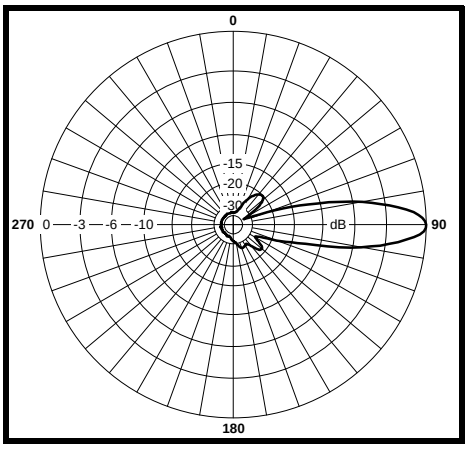
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane

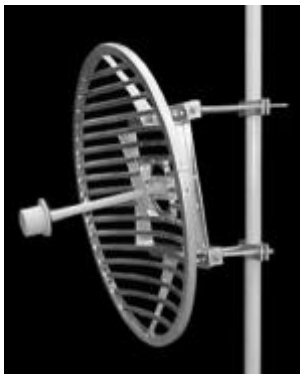


E-Plane



TA-2536 Grid Parabolic

2485-2690 MHz



The TA-2536 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is at DC ground to aid in lightning protection. These antennas are extremely rugged and are designed to provide superior performance in any conditions.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 25.5 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 8.3 degrees
E-Plane Beamwidth: 9.3 degrees
Cross Pol. Discrimination: 30 dB
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

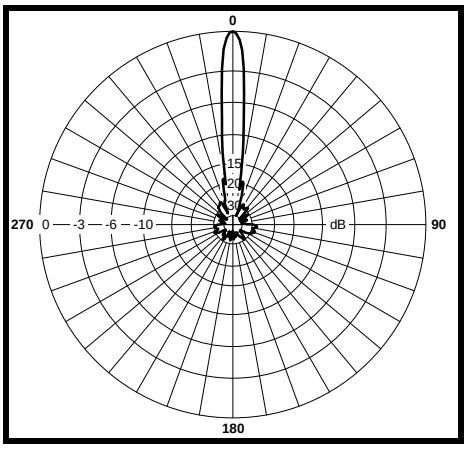
Mechanical Specifications

Diameter: 38.5 in. (978 mm)
Weight (Incl. clamps): 40 lb. (18.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 177 lb. (80.5 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

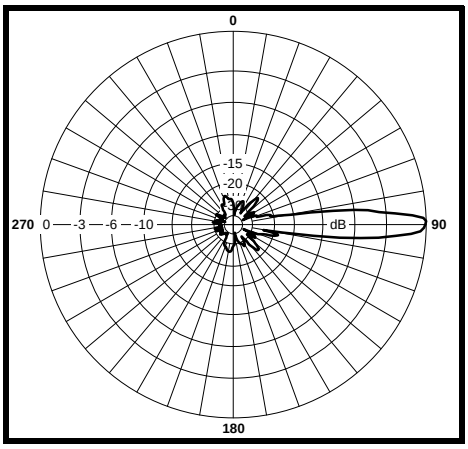
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane

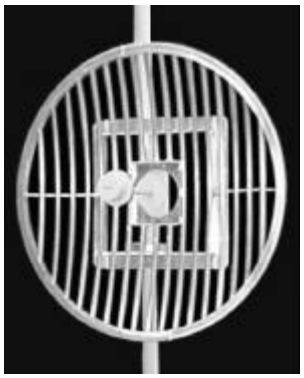


E-Plane



TA-2548 Grid Parabolic

2485-2690 MHz



The TA-2548 is a grid parabolic antenna with a broadband dipole horn feed which is sealed for superior weatherability. The antenna is at DC ground to aid in lightning protection. These antennas are extremely rugged and are designed to provide superior performance in any conditions.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 28 dBi
VSWR: 1.35:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 200 Watts
H-Plane Beamwidth: 6.3 degrees
E-Plane Beamwidth: 7 degrees
Cross Pol. Discrimination: 30 dB
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

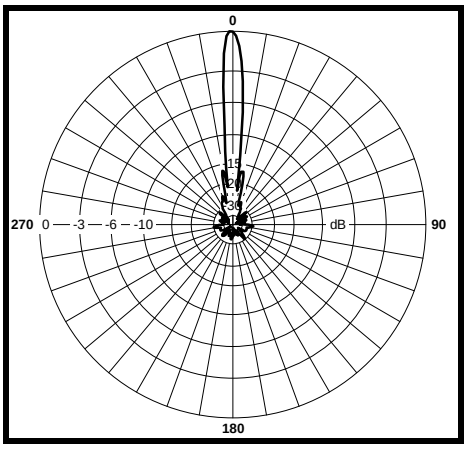
Mechanical Specifications

Diameter: 50.5 in. (1283 mm)
Weight (Incl. clamps): 50 lb. (22.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 304 lb. (138.2 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 1.75 - 4.5 in. (44.5 - 114 mm)

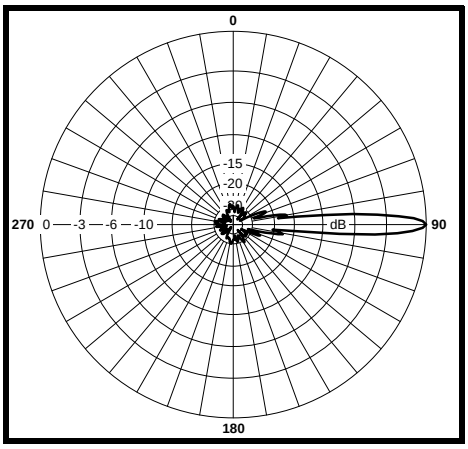
Materials

Radiating Elements: Aluminum
Reflector: Irridited aluminum
Clamps: HDG steel

H-Plane

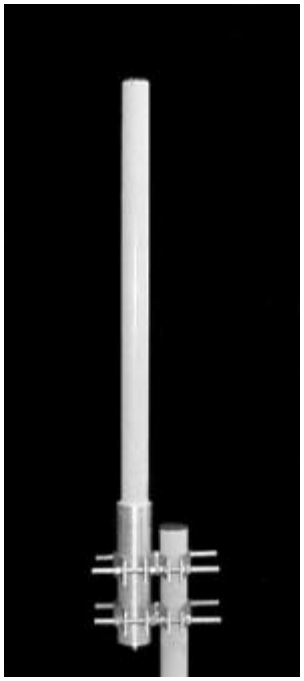


E-Plane



TA-2550 Omnidirectional

2485-2690 MHz



The TA-2550 is a 10 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2485-2690 MHz
Gain: 10 dBi
VSWR: 1.5:1 max.
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 8 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

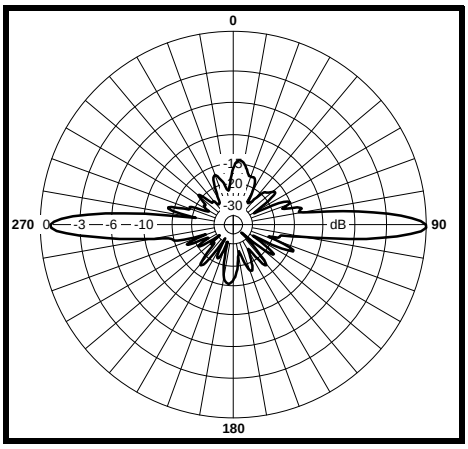
Mechanical Specifications

Length: 48 in. (1219 mm)
Diameter: 2.25 in. (57 mm)
Weight (Incl. Clamps): 15 lb. (6.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 31 lb. (14.1 kg)
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Copper
Radome: Gray UV stabilized fiberglass
Clamps: HDG steel

E-Plane



TA-3402H-8-60 Sector

3400-3700 MHz

The TA-3402H-8-60 is a horizontally polarized 60 degree sectoral antenna designed to comply with the ETSI EN 302 085 V1.1.2 Section 6.2 CS3 standard. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 17 +/- 1 dBi
VSWR: 1.5:1
Front to Back Ratio: ETSI CS3
Polarization: Horizontal
Power Rating: 20 Watts
H-Plane Beamwidth: 10 degrees
E-Plane Beamwidth: 60 degrees
Cross Pol. Discrimination: ETSI CS3
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

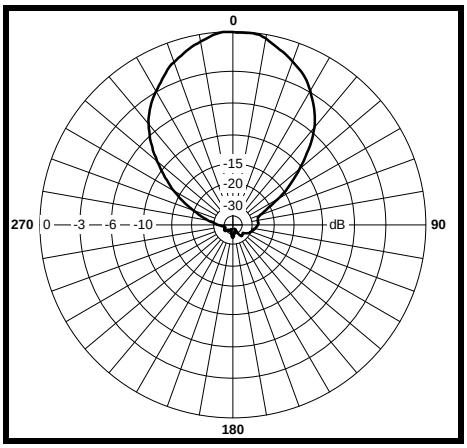
Mechanical Specifications

Length: 23.9 in. (607.1 mm)
Width: 10.6 in. (269.2 mm)
Depth: 2.74 in. (69.85 mm)
Weight (incl. Clamps): 5 lb. (2.27 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 110 lb. (49.9 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

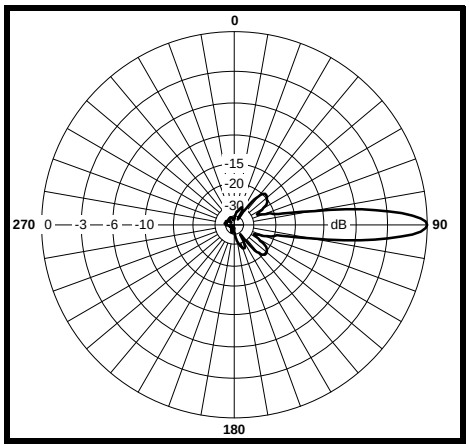
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

E-Plane



H-Plane



TA-3402H-8-90 Sector

3400-3700 MHz

The TA-3402H-8-90 is a horizontally polarized 90 degree sectoral antenna designed to comply with the ETSI EN 302 085 V1.1.2 Section 6.2 CS3 standard. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 14 dBi
VSWR: 1.5:1
Front to Back Ratio: ETSI CS3
Polarization: Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 9 degrees
E-Plane Beamwidth: 90 degrees
Cross Pol. Discrimination: ETSI CS3
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

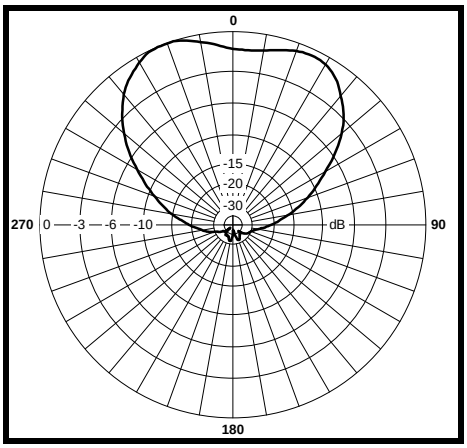
Mechanical Specifications

Length: 23.8 in. (604.5 mm)
Width: 9.4 in. (238.8 mm)
Depth: 2.75 in. (69.8 mm)
Weight (incl. Clamps): 4.5 lb. (2.0 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 96 lb. (43.5 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

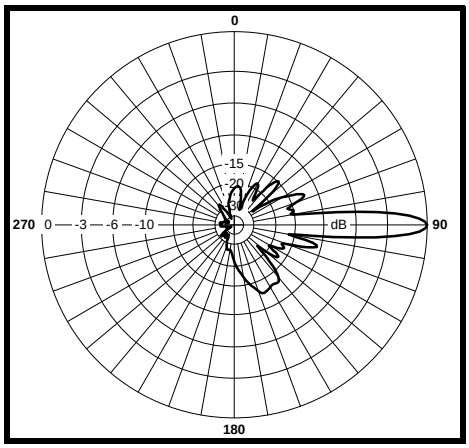
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminium and stainless steel

E-Plane



H-Plane



TA-3404-8-60 Sector

3400-3700 MHz

The TA-3404-8-60 is a vertically polarized 60 degree sectoral antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 CS1 standard. The TA-3404-8-60 consists of a printed broadband dipole array enclosed in an aluminum cavity and UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 17 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min. 30 typical
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 6.7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

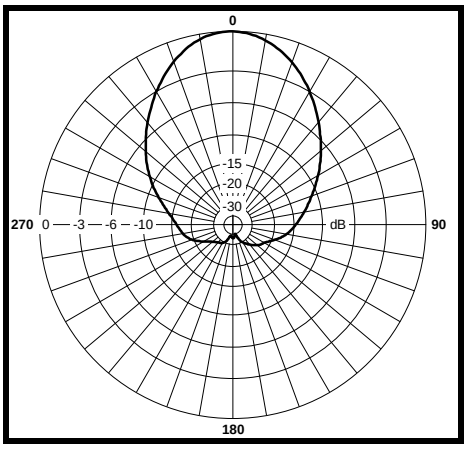
Mechanical Specifications

Length: 27.4 in. (696.7 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 4 lb. (1.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 26 lb. (11.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

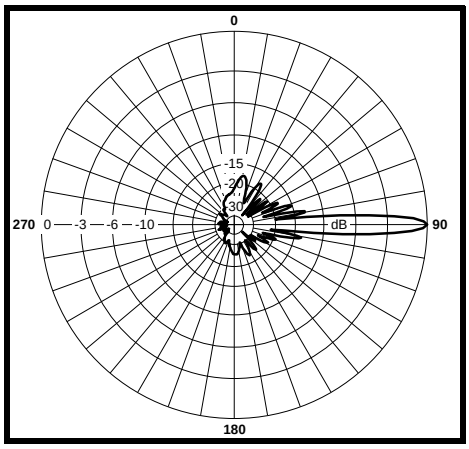
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane

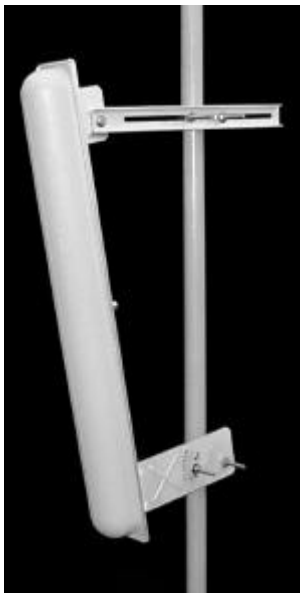


E-Plane



TA-3404-8-90 Sector

3400-3700 MHz



The TA-3404-8-90 is a vertically polarized 90 degree sectoral antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 CS1 standard. The TA-3404-8-90 consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 15.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min. 30 typical
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 6.7 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

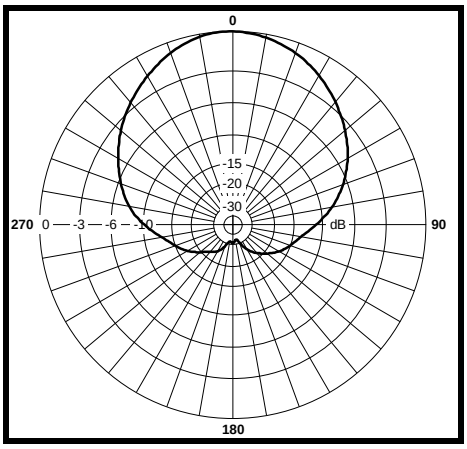
Mechanical Specifications

Length: 27.4 in. (696.7 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 4 lb. (1.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 26 lb. (11.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

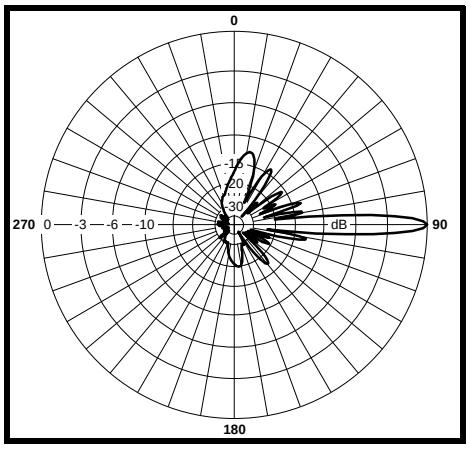
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane



E-Plane



TA-3404-8-120 Sector

3400-3700 MHz

The TA-3404-8-120 is a vertically polarized 120 degree sectoral antenna. The antenna consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 14 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min. 25 typical
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 120 degrees
E-Plane Beamwidth: 6.7 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

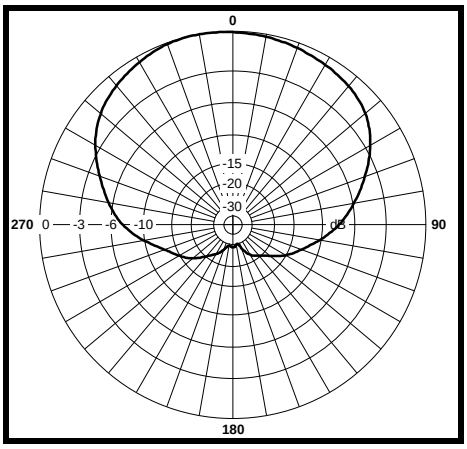
Mechanical Specifications

Length: 27.4 in. (696.7 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 4 lb. (1.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 26 lb. (11.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

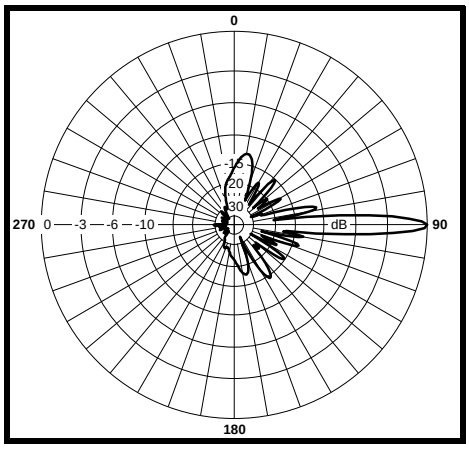
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane

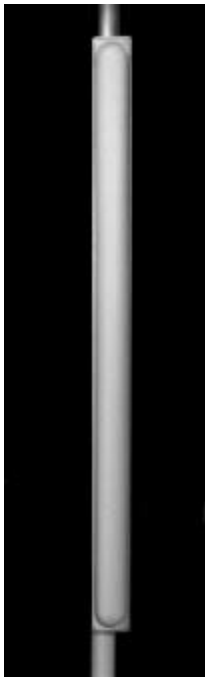


E-Plane



TA-3404-16-60 Sector

3400-3700 MHz



The TA-3404-16-60 is a vertically polarized 60 degree sectoral antenna. The antenna consists of a broadband dipole array on printed circuit boards enclosed in an aluminum cavity with a weatherproof plastic cover. The antenna elements are at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 19.75 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min. 25 typical
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 3.5 degrees
Cross Pol. Discrimination: 15 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

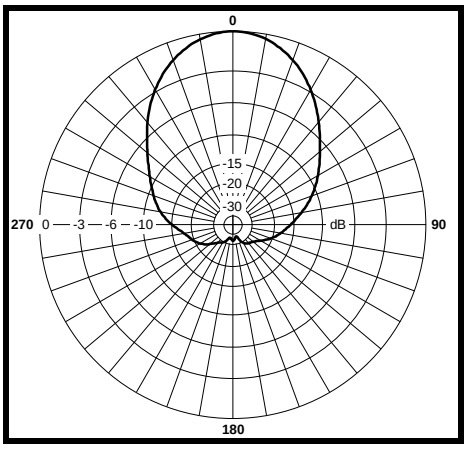
Mechanical Specifications

Length: 53 in. (1346 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 7 lb. (3.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 50 lb. (22.7 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

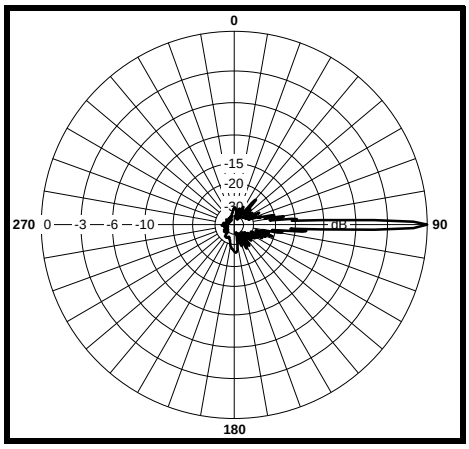
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane



E-Plane



TA-3407 Panel

3400-4200 MHz

The TA-3407 is a vertically or horizontally polarized panel antenna. The TA-3407 consists of a printed broadband dipole array enclosed in an aluminum flat base and a molded plastic radome. The antenna was designed for operation under severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-4200 MHz
Gain: 18.0 dBi
VSWR: 2:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 18 degrees
E-Plane Beamwidth: 18 degrees
Cross Pol. Discrimination: 25 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

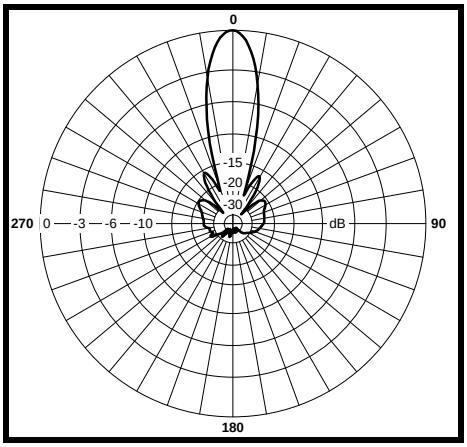
Mechanical Specifications

Length: 10.1 in. (256.5 mm)
Width: 10.1 in. (256.5 mm)
Depth: 2.2 in. (55.9 mm)
Weight (incl. Clamps): 4 lb. (1.8 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 44 lb. (20 kg)
Mechanical Tilt: 0+/-10 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

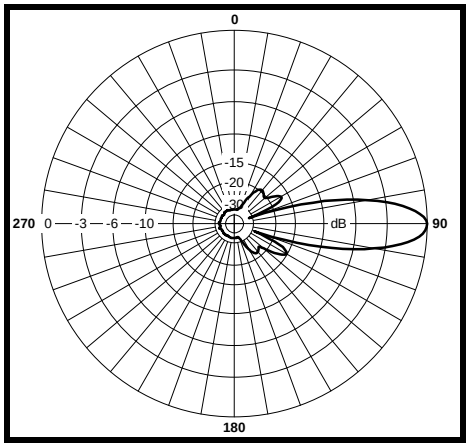
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: HDG steel

H-Plane



E-Plane



TA-3408 Panel

3400-3700 MHz

The TA-3408 is a vertically or horizontally polarized panel antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 TS3 standard. The TA-3408 consists of a printed broadband dipole array enclosed in an aluminum flat base and a molded plastic radome. The antenna was designed for operation under severe weather conditions and is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 18 +/- 0.5 dBi
VSWR: 1.5 :1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 20° +/- 2°
E-Plane Beamwidth: 20° +/- 2°
Cross Pol. Discrimination: 22 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

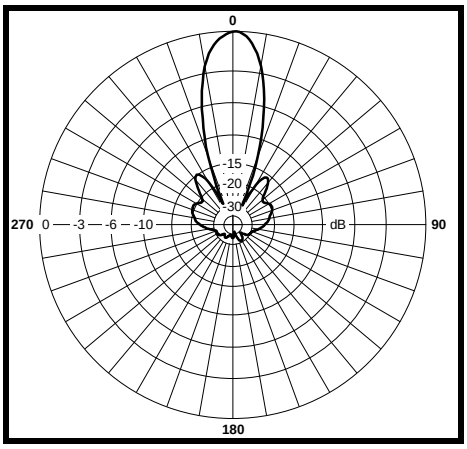
Mechanical Specifications

Length: 9.25 in. (235 mm)
Width: 9.25 in. (235 mm)
Depth: 1.63 in. (41 mm)
Weight (incl. Clamps): 1.5 lbs. (0.68 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 38 lbs. (17.2 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

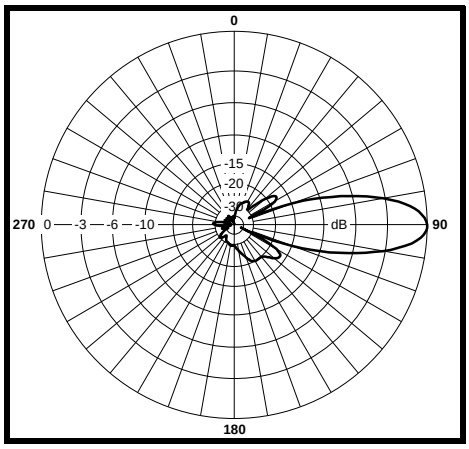
Materials

Radiating Elements: Tin-Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane

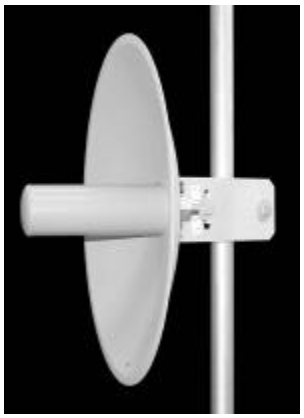


E-Plane



TA-3418 Solid Parabolic

3400-3700 MHz



TA-3418

TA-3418R

The TA-3418 is an 18 inch diameter solid parabolic antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 TS3 standard. The TA-3418 feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-3418R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 21 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical / Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 12 degrees
E-Plane Beamwidth: 12 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

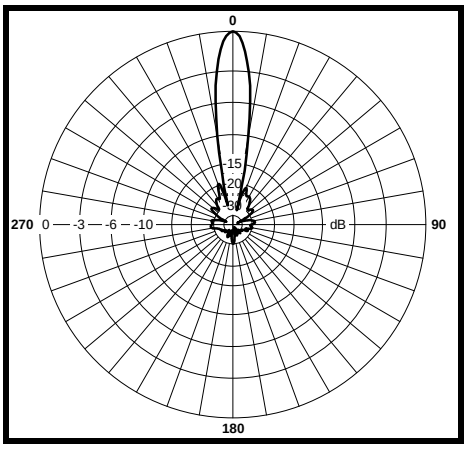
Mechanical Specifications

Diameter: 19.25 in. (489 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 12 lb. (505 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 136 lb. (61.8 kg)
with radome: 69 lb. (31.4 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

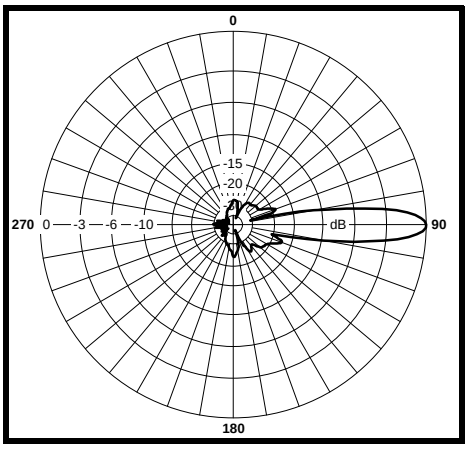
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-3424 Solid Parabolic

3400-3700 MHz

TA-3424

TA-3424R

The TA-3424 is a 24 inch diameter solid parabolic antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 TS3 standard. The TA-3424 feed is bolted to the aluminum reflector so the polarization can easily be changed in the field by rotating the antenna through 90 degrees. A full radome (TA-3424R) is also available for extreme weather conditions.

Electrical Specifications

Frequency Range: 3400-3700 MHz
Gain: 23 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical or Horizontal
Power Rating: 50 Watts
H-Plane Beamwidth: 9.6 degrees
E-Plane Beamwidth: 9.6 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

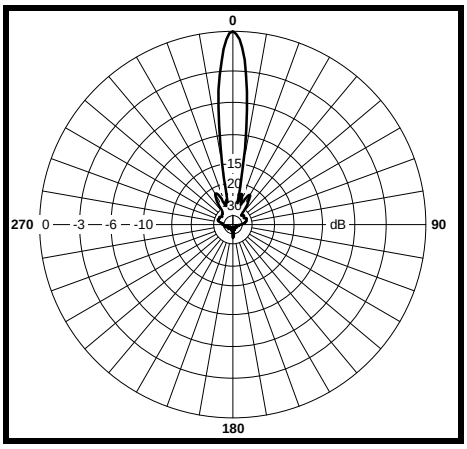
Mechanical Specifications

Diameter: 25.25 in. (641 mm)
Depth: 8 in. (204 mm)
Weight (Incl. Clamps): 20 lb. (9.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 234 lb. (106.4 kg)
with radome: 120 lb. (54.5 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

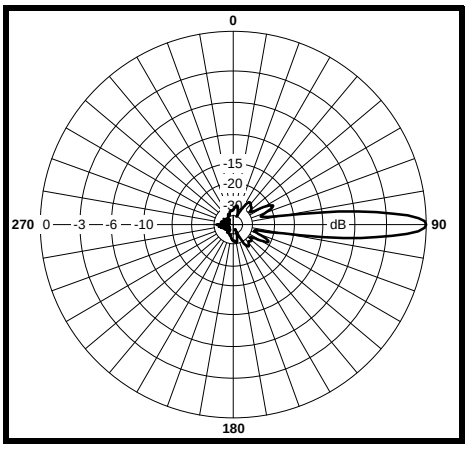
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-4904-14-90 Sector

4940 - 4990 MHz

The TA-4904-14-90 is a vertically polarized 90 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 4940 - 4990 MHz
Gain: 15.5 dBi typ.
VSWR: 2:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 5 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

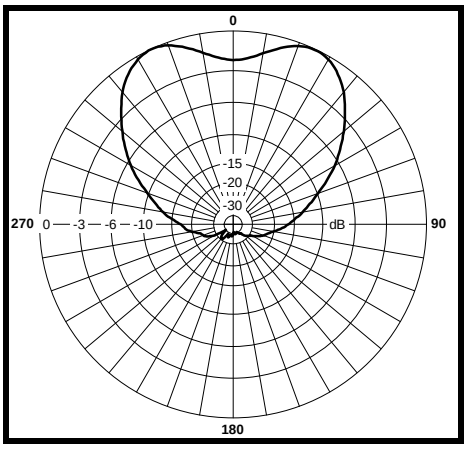
Mechanical Specifications

Length: 26.5 in. (673 mm)
Width: 6.25 in. (159 mm)
Depth: 2.0 in. (51 mm)
Weight (incl. Clamps): 6 lb. (2.72 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 72 lb. (32.6 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

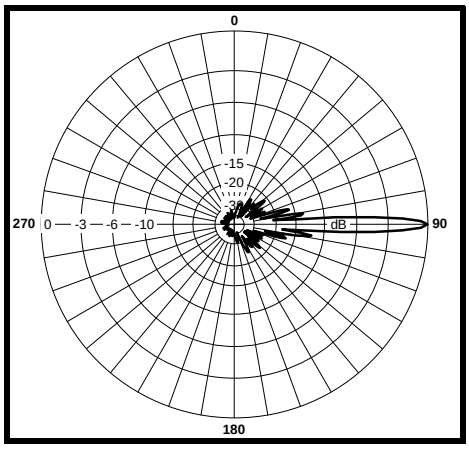
Materials

Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane

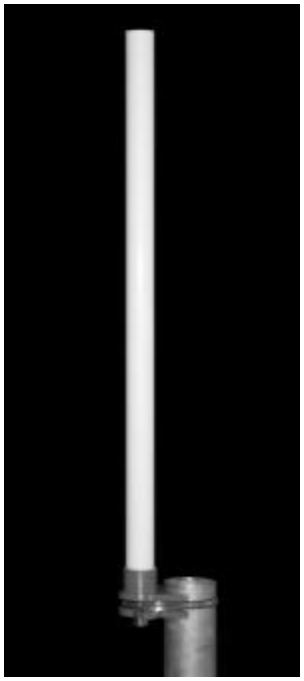


E-Plane



TA-4952 Omnidirectional

4940-4990 MHz



The TA-4952 is a 10 dBi omnidirectional antenna consisting of end fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection. The TA-4952 has been developed in response to customer requests specifically with and for the Public Safety Band in mind which demands optimal performance and reliability at an affordable price.

Electrical Specifications

Frequency Range: 4940-4990 MHz
Gain: 10 dBi typ.
VSWR: 1.7:1 max.
Polarization: Vertical
Power Rating: 75 Watts
H-Plane Beamwidth: 360 degrees
E-Plane Beamwidth: 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

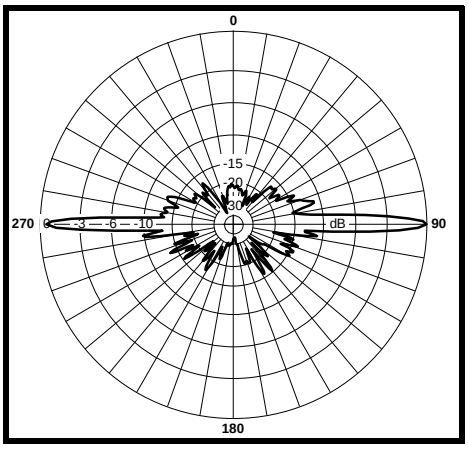
Mechanical Specifications

Length: 34 in. (864 mm)
Diameter: 1.0 in. (25 mm)
Weight (Incl. Clamps): 1.2 lb. (0.544 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 9.3 lb. (4.2 kg)
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

Materials

Radiating Elements: Plated Copper on PCB
Radome: White UV stabilized fiberglass
Clamps: Stainless steel

E-Plane



TA-5204-14-90 Sector

5250-5350 & 5725-5875 MHz

The TA-5204-14-90 is a vertically polarized 90 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5250-5350 & 5725-5875 MHz
Gain: 16 dBi min.
VSWR: 1.5:1
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 5 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

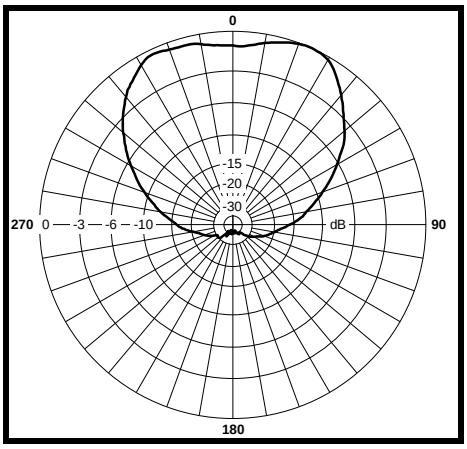
Mechanical Specifications

Length: 26.5 in. (673 mm)
Width: 6.25 in. (159 mm)
Depth: 2.0 in. (51 mm)
Weight (incl. Clamps): 6 lb. (2.72 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 72 lb. (32.6 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

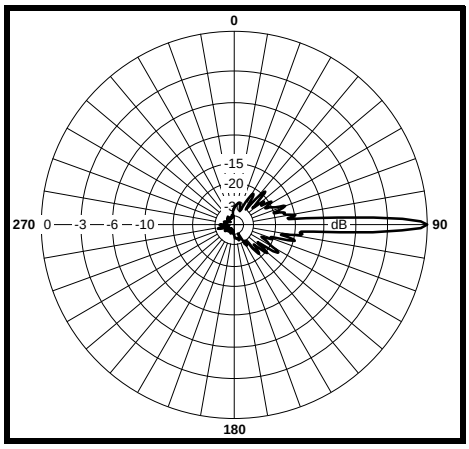
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane



E-Plane



TA-5206 Panel

5250-5350 & 5725-5875 MHz

The TA-5206 is a vertically or horizontally polarized directional panel antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 TS3 standard. The antenna consists of a printed broadband dipole array enclosed in an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5250-5350 & 5725-5875 MHz
Gain: 23.5 +/- 0.5 dBi @ 5725-5875 MHz
22.5 +/- 0.5 dBi @ 5250-5350 MHz
VSWR: 1.5:1
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 10 Watts
H-Plane Beamwidth: 9.5 degrees
E-Plane Beamwidth: 9 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

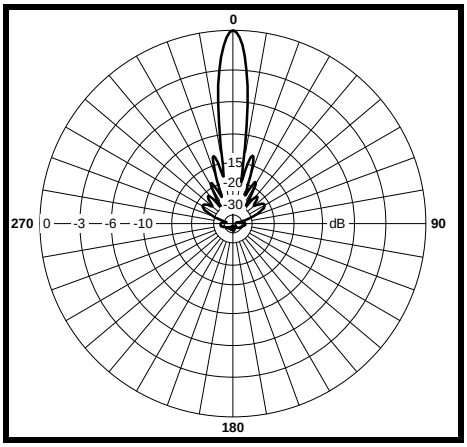
Mechanical Specifications

Length: 12 in. (304.8 mm)
Width: 12 in. (304.8 mm)
Depth: 1.5 in. (38.1 mm)
Weight (incl. Clamps): 5 lb. (2.27 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 63 lb. (28.6 kg)
Mechanical Tilt: 0+/-15 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

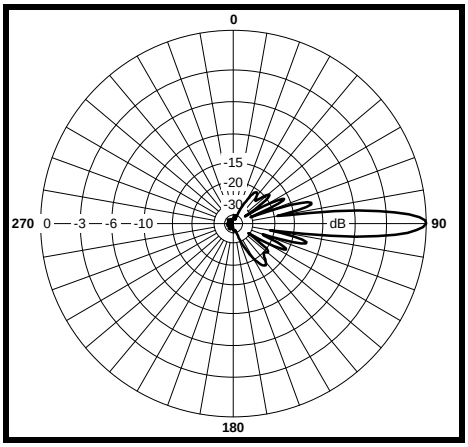
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane



TA-5404-8-60 Sector

5470-5875 MHz

The TA-5404-8-60 is a vertically polarized 60 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5875 MHz
Gain: 16 dBi min.
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 40 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 7 degrees
Electrical Downtilt: 0º
Cross Pol. Discrimination: 15 dB min.

Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

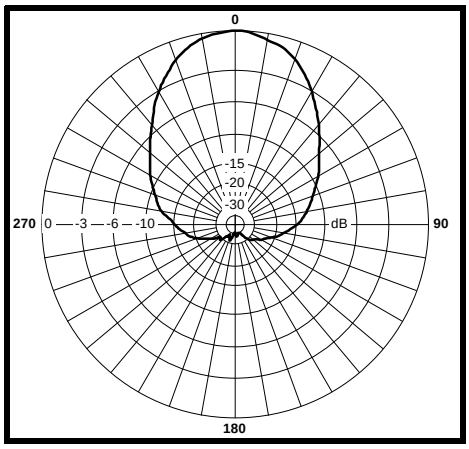
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 3.2 in. (81 mm)
Weight (incl. Clamps): 4 lb. (1.81 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 37 lb. (16.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

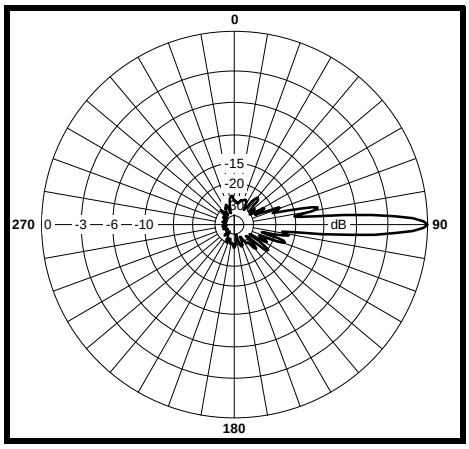
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ and HDG Steel

H-Plane



E-Plane



TA-5404-8-90 Sector

5470-5875 MHz

The TA-5404-8-90 is a vertically polarized 90 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5875 MHz
Gain: 15.5 dBi typ.
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 40 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 7 degrees
Electrical Downtilt: 0º
Cross Pol. Discrimination: 15 dB min.

Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

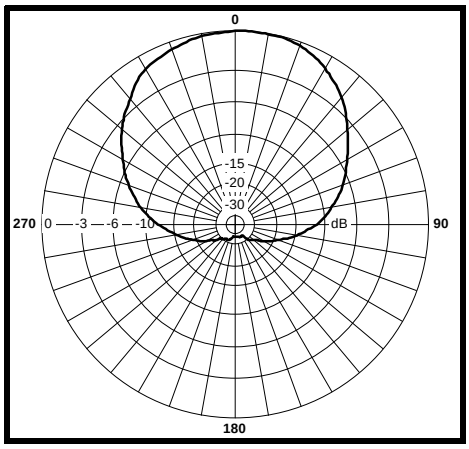
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 3.2 in. (81 mm)
Weight (incl. Clamps): 4 lb. (1.81 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 37 lb. (16.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

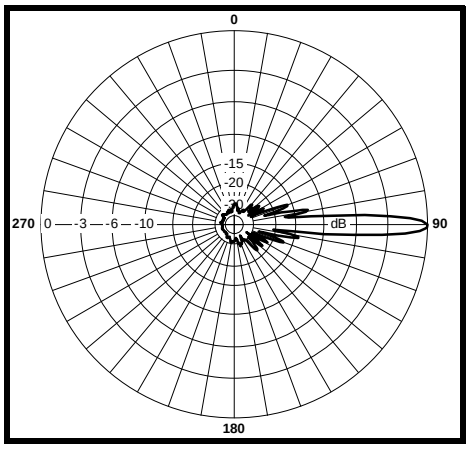
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ and HDG Steel

H-Plane



E-Plane



TA-5404-8-120 Sector

5470-5875 MHz

The TA-5404-8-120 is a vertically polarized 120 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5875 MHz
Gain: 14.5 +/- 0.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 40 Watts
H-Plane Beamwidth: 120 degrees
E-Plane Beamwidth: 7 degrees
Electrical Downtilt: 0º
Cross Pol. Discrimination: 15 dB min.

Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

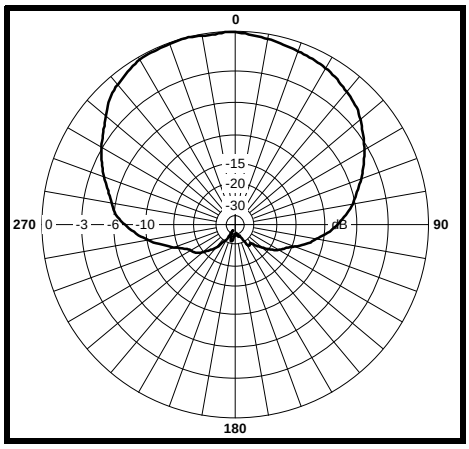
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 3.2 in. (81 mm)
Weight (incl. Clamps): 4 lb. (1.81 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 37 lb. (16.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

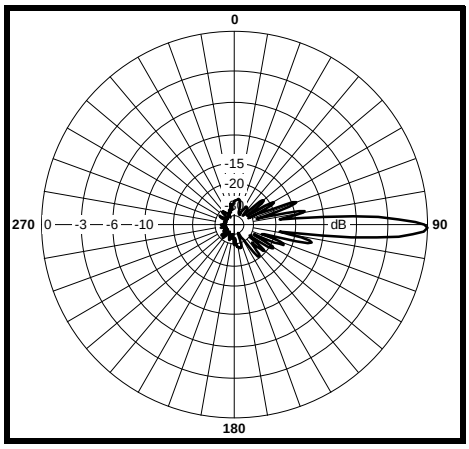
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ and HDG Steel

H-Plane



E-Plane



TA-5404-8-180 Sector

5470-5875 MHz

The TA-5404-8-180 is a vertically polarized 180 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5875 MHz
Gain: 13 dBi typ.
VSWR: 1.5:1 max.
Front to Back Ratio: 20 dB min.
Polarization: Vertical
Power Rating: 40 Watts
H-Plane Beamwidth: 180 degrees
E-Plane Beamwidth: 7 degrees
Electrical Downtilt: 0º
Cross Pol. Discrimination: 15 dB min.

Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

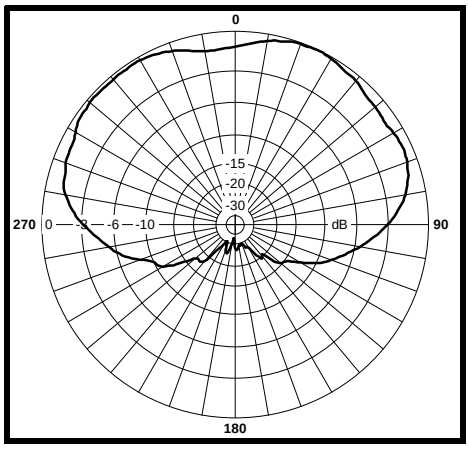
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 3.2 in. (81 mm)
Weight (incl. Clamps): 4 lb. (1.81 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 37 lb. (16.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

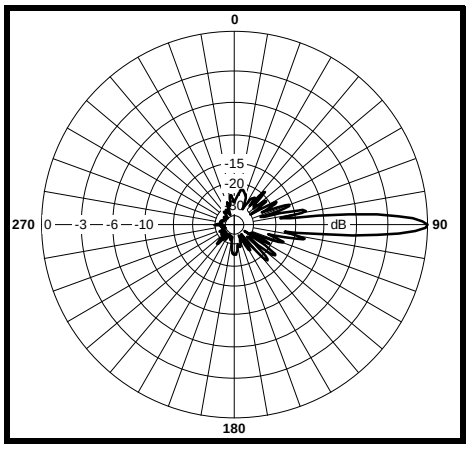
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ and HDG Steel

H-Plane



E-Plane



TA-5404-14-90 Sector

5470-5725 MHz

The TA-5404-14-90 is a vertically polarized 90 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5725 MHz
Gain: 16 dBi min.
VSWR: 1.65:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Vertical
Power Rating: 5 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 5 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

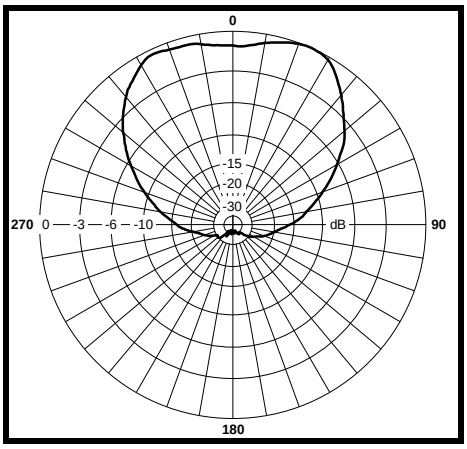
Mechanical Specifications

Length: 26.5 in. (673 mm)
Width: 6.25 in. (159 mm)
Depth: 2.0 in. (51 mm)
Weight (incl. Clamps): 6 lb. (2.72 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 72 lb. (32.6 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

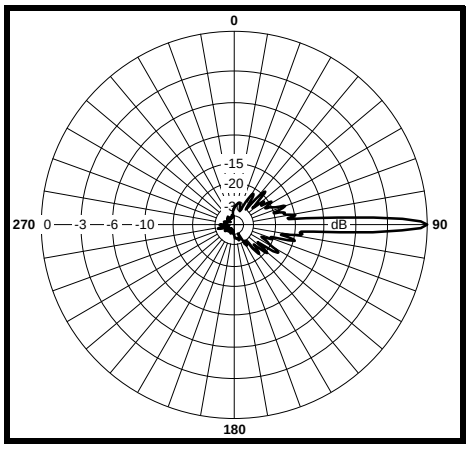
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane



E-Plane



TA-5405H-8-60 Sector

5470-5875 MHz

The TA-5405H-8-60 is a horizontally polarized 60 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5875 MHz
Gain: 16.0 +/- 0.5 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Horizontal
Power Rating: 40 Watts
H-Plane Beamwidth: 7 degrees
E-Plane Beamwidth: 60 degrees
Electrical Downtilt: 0º
Cross Pol. Discrimination: 20 dB max.

Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

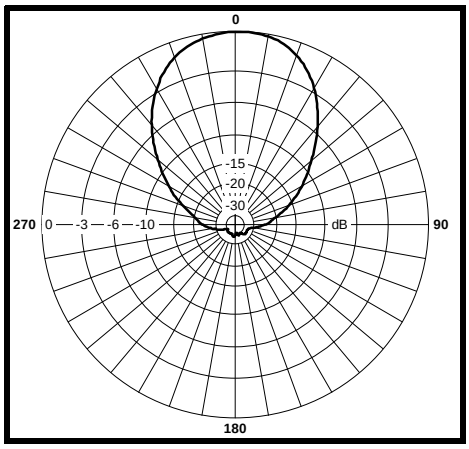
Mechanical Specifications

Length: 20.5 in. (521 mm)
Width: 4.9 in. (124 mm)
Depth: 3.3 in. (84 mm)
Weight (incl. Clamps): 4 lb. (1.81 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 37 lb. (16.8 kg)
Mechanical Tilt: 0 - 30 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

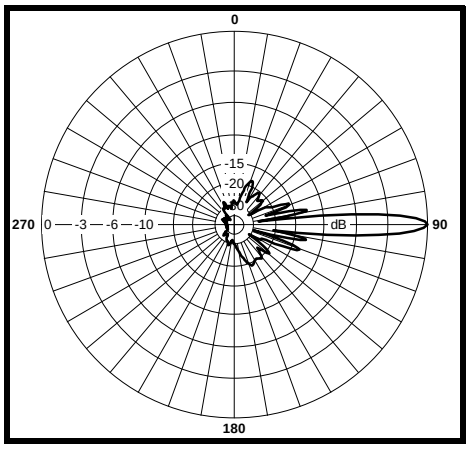
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum, EDZ and HDG Steel

E-Plane



H-Plane



TA-5405H-14-90 Sector

5470-5725 MHz

The TA-5405H-14-90 is a horizontally polarized 90 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5725 MHz
Gain: 16.5 dBi min.
VSWR: 1.65:1 max.
Front to Back Ratio: 25 dB min.
Polarization: Horizontal
Power Rating: 5 Watts
H-Plane Beamwidth: 5 degrees
E-Plane Beamwidth: 90 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

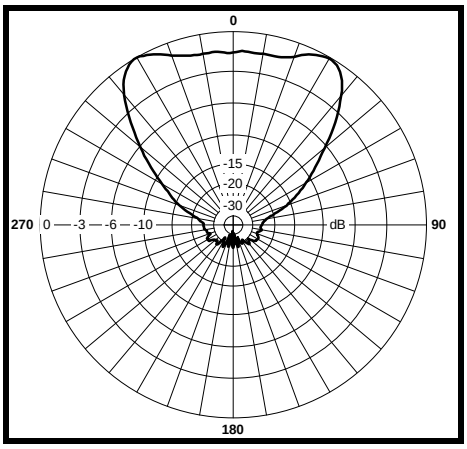
Mechanical Specifications

Length: 24.5 in. (622 mm)
Width: 9.0 in. (229 mm)
Depth: 2.25 in. (57mm)
Weight (incl. Clamps): 6 lb. (2.72 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 96 lb. (43.5 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

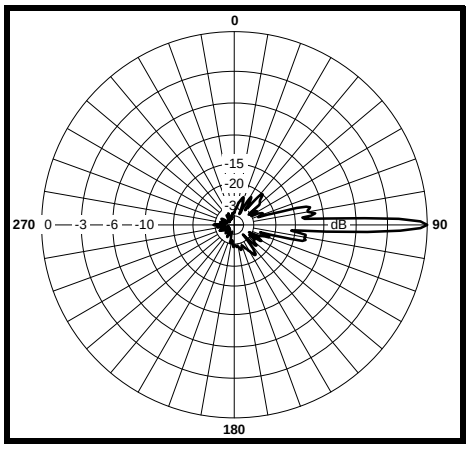
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

E-Plane



H-Plane



TA-5406 Panel

5470-5725 MHz

The TA-5406 is a vertically or horizontally polarized directional panel antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 TS3 standard. The antenna consists of a printed broadband dipole array enclosed in an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5470-5725 MHz
Gain: 23.5 +/- 0.5 dBi
VSWR: 1.65:1 max.
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 10 Watts
H-Plane Beamwidth: 9.5 degrees
E-Plane Beamwidth: 9 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

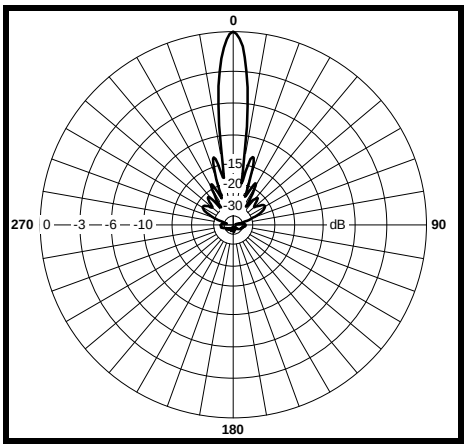
Mechanical Specifications

Length: 12 in. (304.8 mm)
Width: 12 in. (304.8 mm)
Depth: 1.5 in. (38.1 mm)
Weight (incl. Clamps): 5 lb. (2.27 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 63 lb. (28.6 kg)
Mechanical Tilt: 0+/-15 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

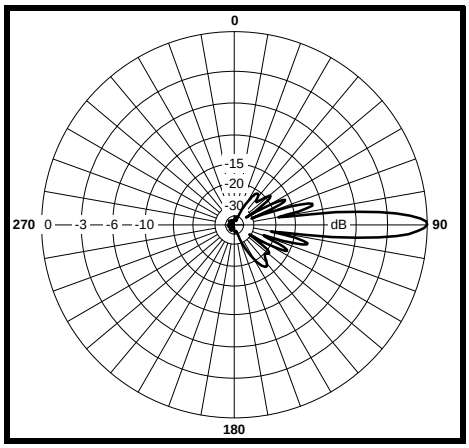
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

H-Plane



E-Plane



TA-5705H-14-90 Sector

5725-5875 MHz

The TA-5705H-14-90 is a horizontally polarized 90 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 5725-5875 MHz
Gain: 16.5 dBi min.
VSWR: 1.5:1
Front to Back Ratio: 25 dB min.
Polarization: Horizontal
Power Rating: 5 Watts
H-Plane Beamwidth: 5 degrees
E-Plane Beamwidth: 90 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

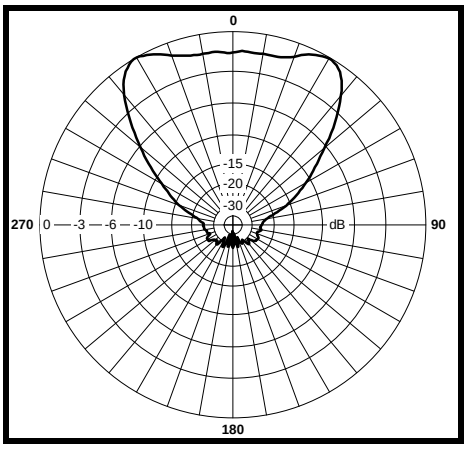
Mechanical Specifications

Length: 24.5 in. (622 mm)
Width: 9.0 in. (229 mm)
Depth: 2.25 in. (57mm)
Weight (incl. Clamps): 6 lb. (2.72 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 96 lb. (43.5 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

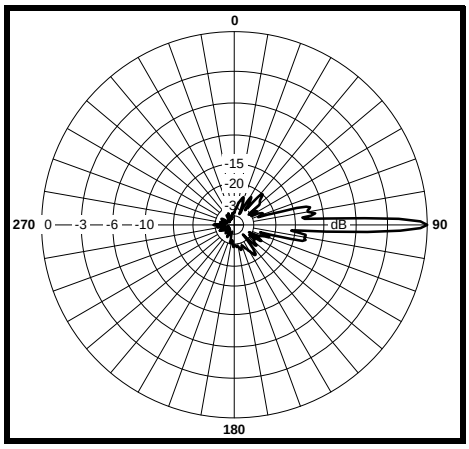
Materials

Radiating Elements: Plated Copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

E-Plane



H-Plane



TA-5724R Solid Parabolic

5725-5875 MHz

The TA-5724R is a 24 inch diameter solid parabolic antenna. The polarization can easily be changed in the field by rotating the antenna through 90 degrees. The antenna is at DC ground to aid in lightning protection and it requires a full radome to ensure the feed is protected from all weather conditions.

Electrical Specifications

Frequency Range: 5725-5875 MHz
Gain: 28 dBi
VSWR: 1.5:1 max.
Front to Back Ratio: 30 dB
Polarization: Vertical or Horizontal
Power Rating: 25 Watts
H-Plane Beamwidth: 6 degrees
E-Plane Beamwidth: 6 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)

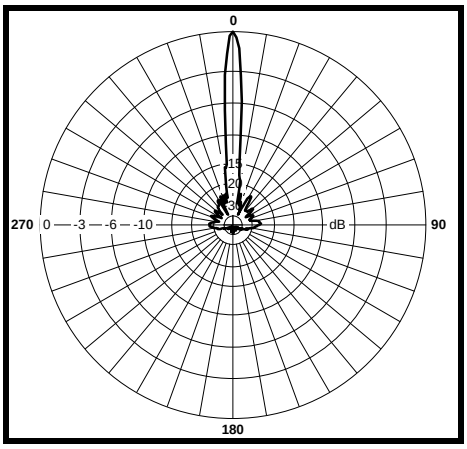
Mechanical Specifications

Diameter: 24 in. (610 mm)
Depth: 9.56 in. (243 mm)
Weight (Incl. Clamps): 20 lb. (9.1 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: N/A
with radome: 127 lb. (57.6 kg)
Mechanical Tilt: 0 ± 10 degrees
Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Brass Rod
Reflector: Aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane