



TIL-TEK Antennas



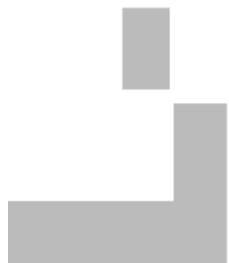
Solutions that Work



Affordable Quality



ISO 9001:2000



Reliability



Service



**TIL-TEK Antennas
P.O. Box 550
Kemptville, Ontario
Canada
K0G 1J0**

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 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 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.

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 is found to have no fault, the customer will be invoiced for the new replacement and will incur the freight to have the antenna returned to them.



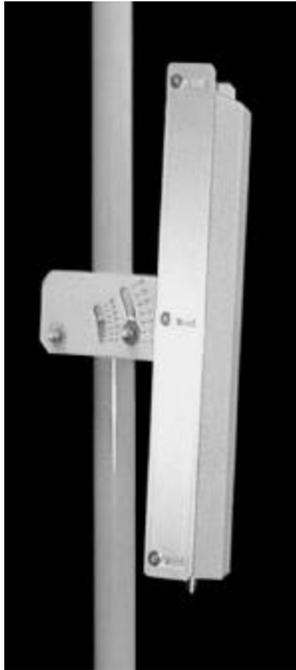
TA-300 Series	340-400 MHz
TA-400 Series	420-470 MHz
TA-700 Series	698-806 MHz
TA-800 Series	806-960 MHz
TA-900 Series	902-928 MHz
TA-1400 Series	1425-1535 MHz
TA-1800 Series	1850-1990 MHz
TA-1880 Series	1880-1930 MHz
TA-2100 Series	2150-2700 MHz
TA-2300 Series	2300-2500 MHz
TA-2400 Series	2400-2483 MHz
TA-2500 Series	2485-2690 MHz
TA-3400 Series	3400-3700 MHz
TA-5200 Series	5250-5875 MHz
TA-5400 Series	5470-5875 MHz
TA-5700 Series	5725-5875 MHz



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)

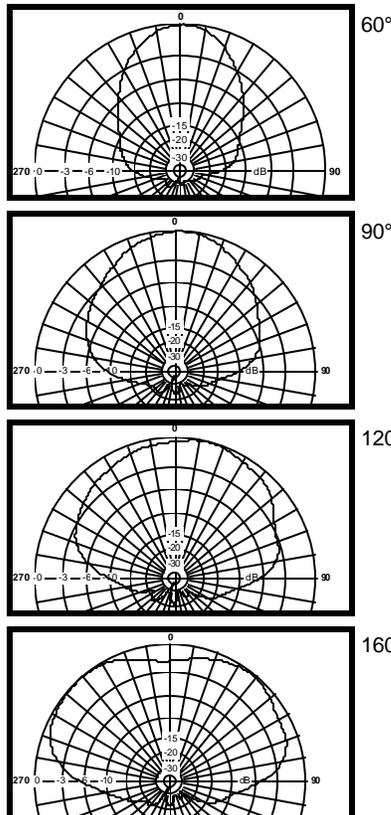
Mechanical Specifications

- 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)

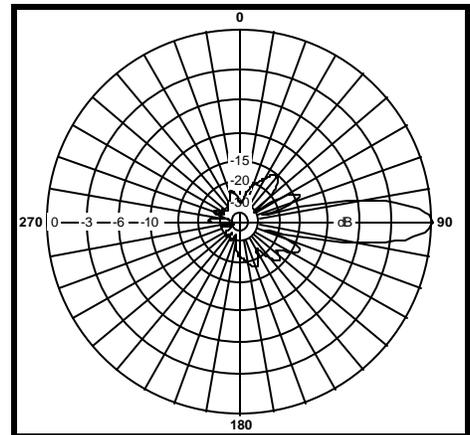
Materials

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

H-Plane



E-Plane





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)

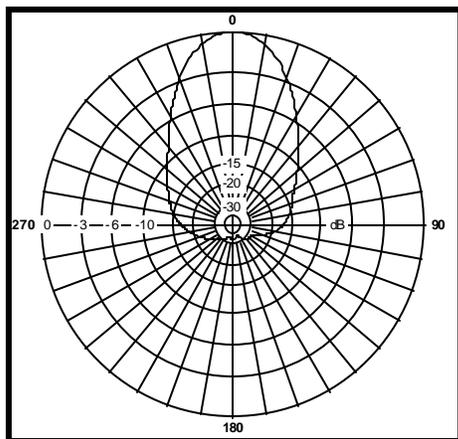
Mechanical Specifications

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)

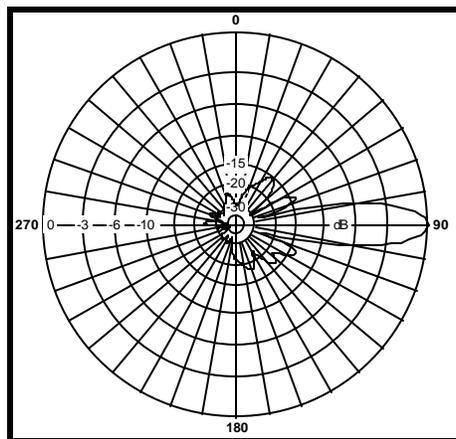
Materials

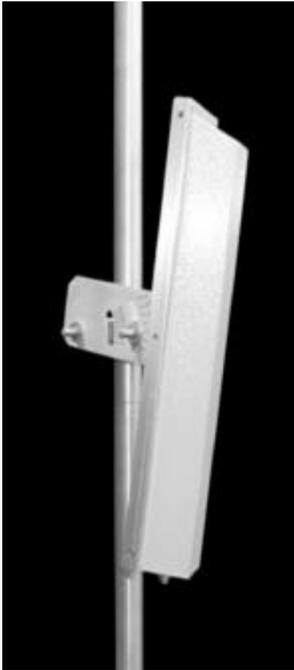
Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and HDG steel

H-Plane



E-Plane





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)

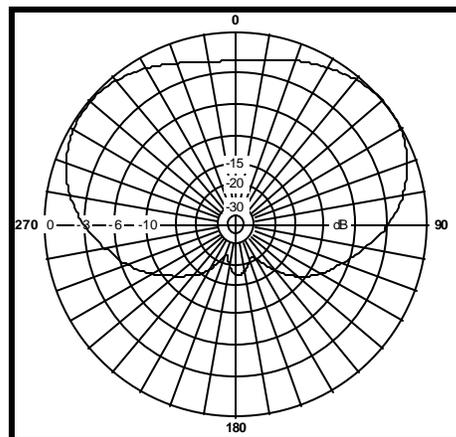
Mechanical Specifications

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)

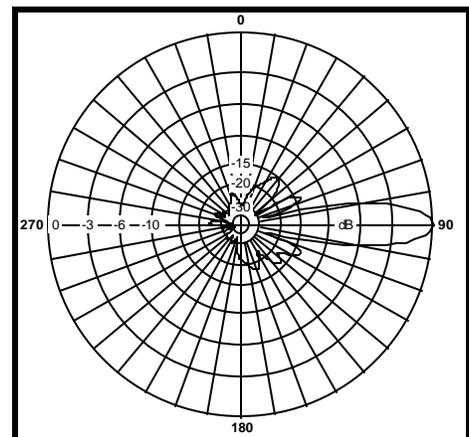
Materials

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)

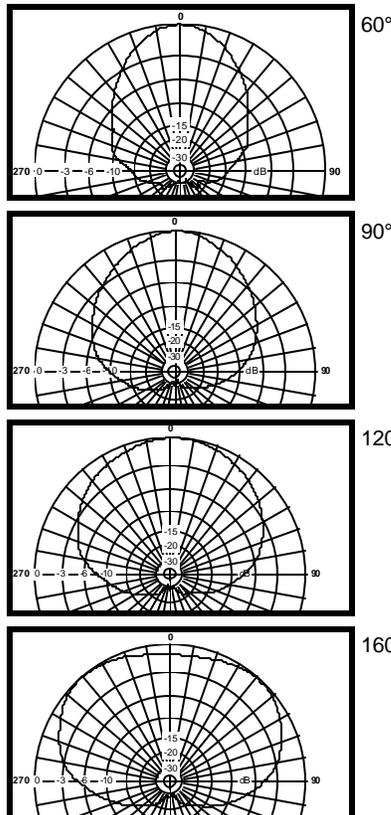
Mechanical Specifications

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)

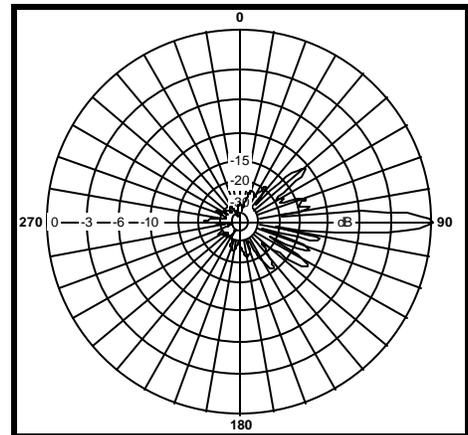
Materials

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)

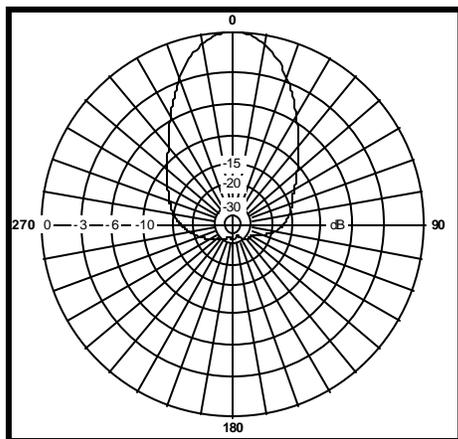
Mechanical Specifications

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)

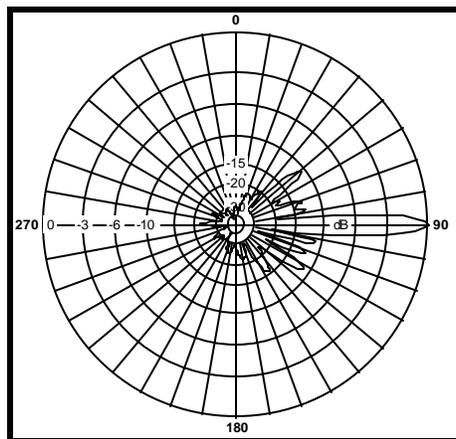
Materials

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)

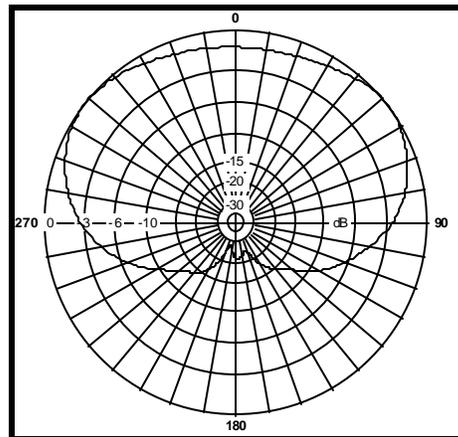
Mechanical Specifications

- 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)

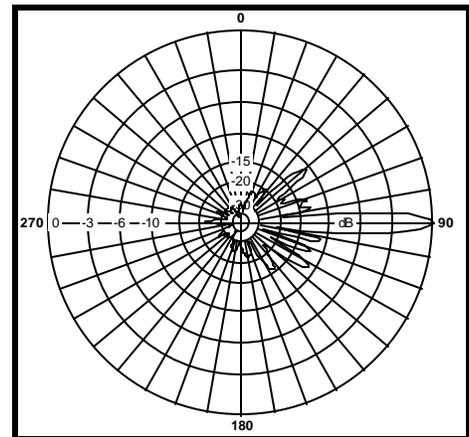
Materials

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

H-Plane



E-Plane

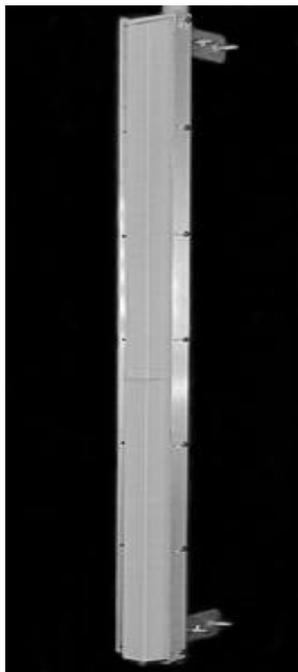




LANtenna Series

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)

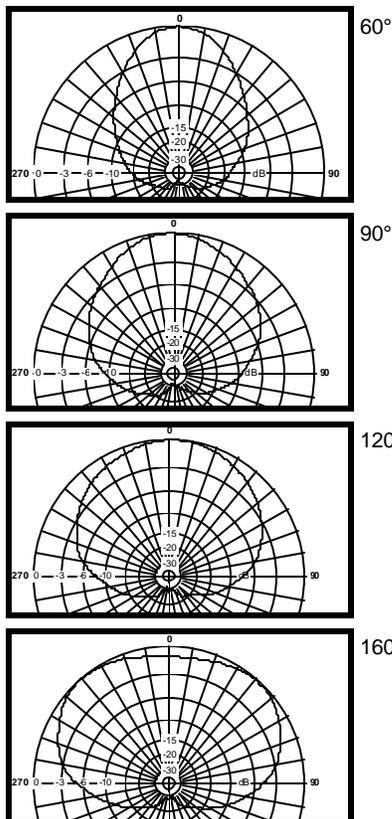
Mechanical Specifications

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)

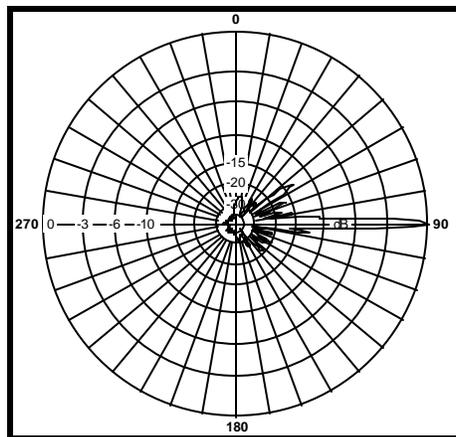
Materials

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

H-Plane



E-Plane

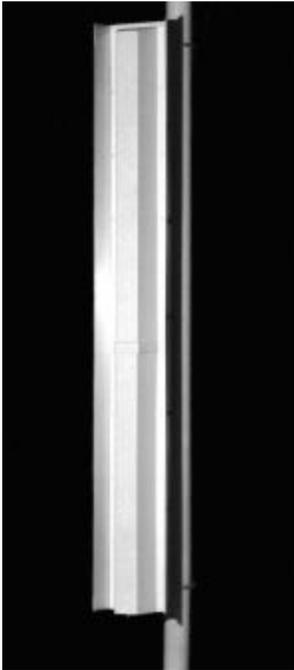




LANTenna Series

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)

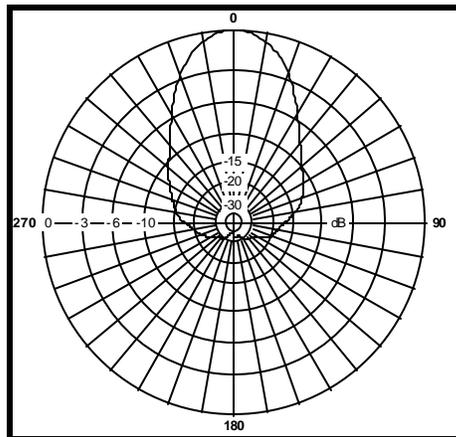
Mechanical Specifications

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)

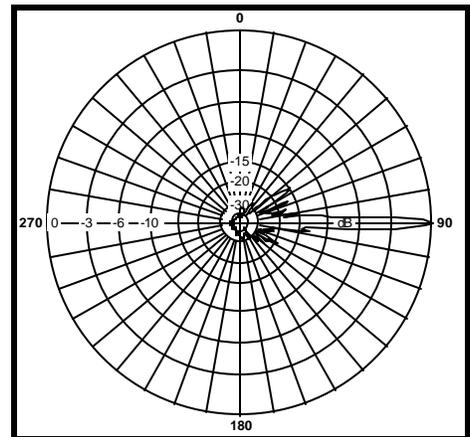
Materials

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

H-Plane



E-Plane

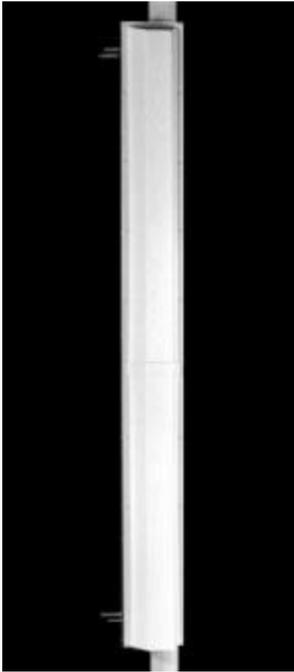




LANtenna Series

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)

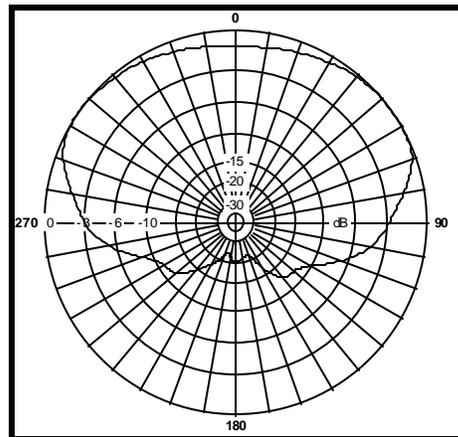
Mechanical Specifications

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)

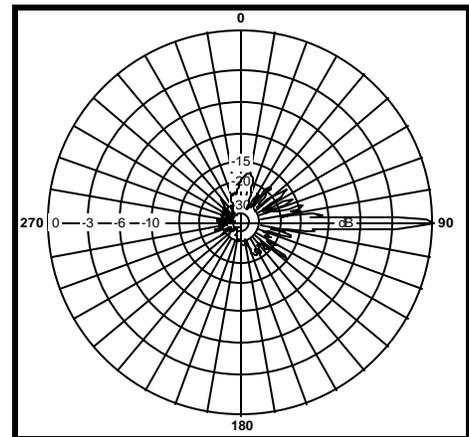
Materials

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

H-Plane



E-Plane





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)

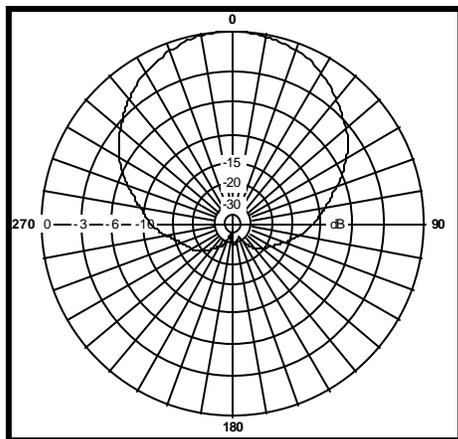
Mechanical Specifications

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)

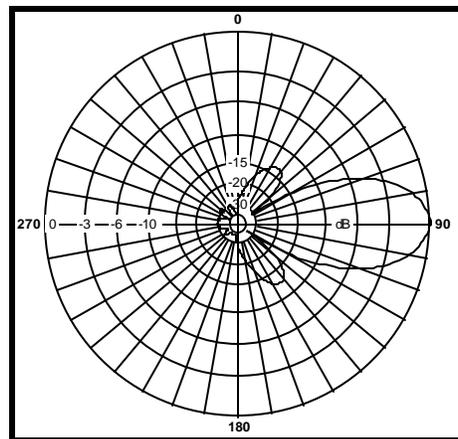
Materials

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

H-Plane



E-Plane





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)

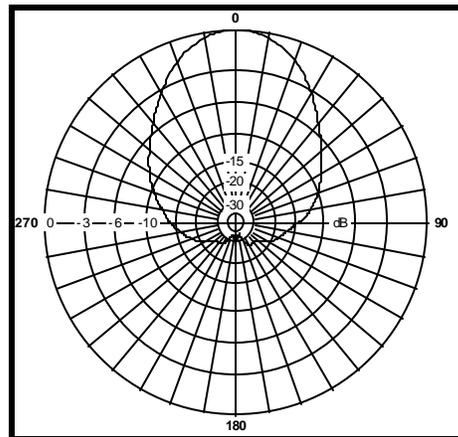
Mechanical Specifications

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)

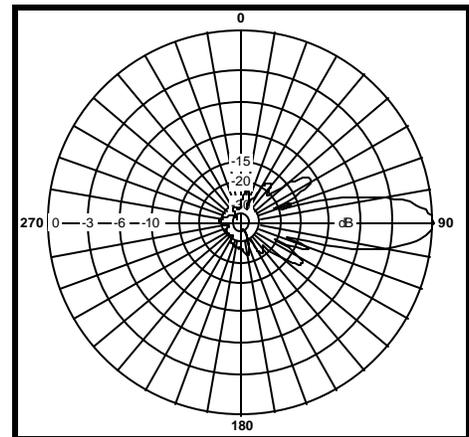
Materials

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

H-Plane



E-Plane





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)

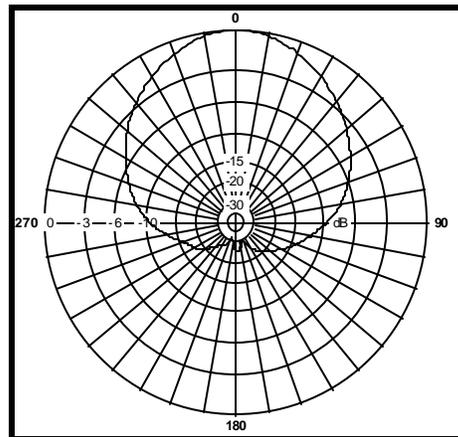
Mechanical Specifications

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)

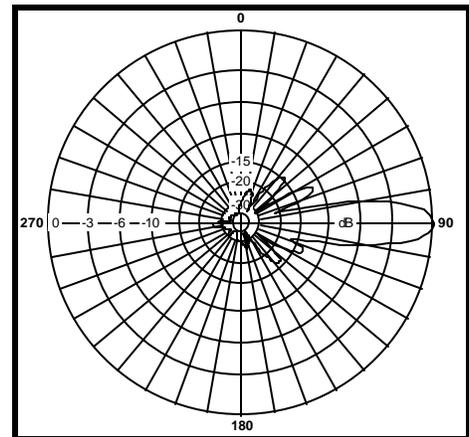
Materials

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

H-Plane



E-Plane

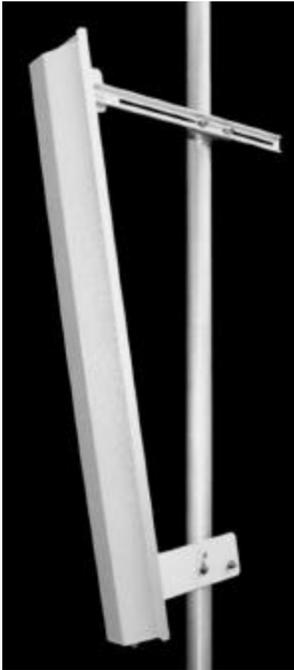




LANTenna Series

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)

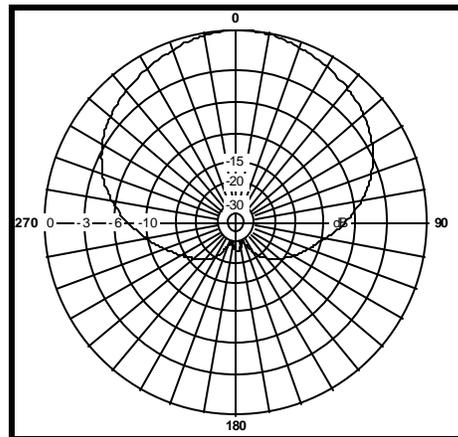
Mechanical Specifications

- 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)

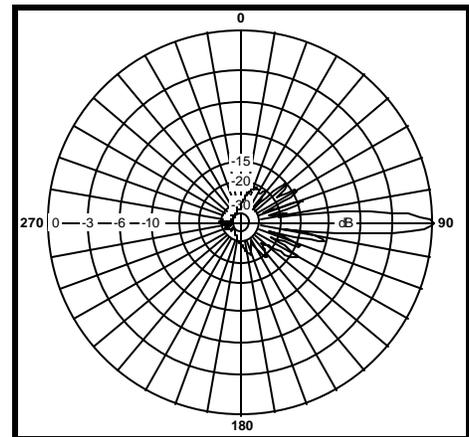
Materials

- 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)

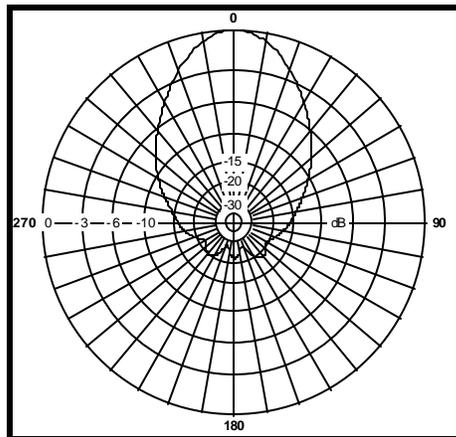
Mechanical Specifications

- 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)

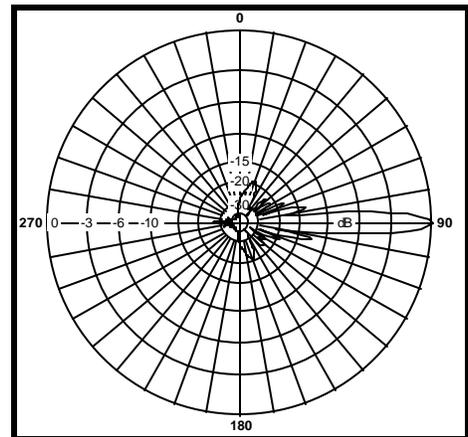
Materials

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

E-Plane



H-Plane

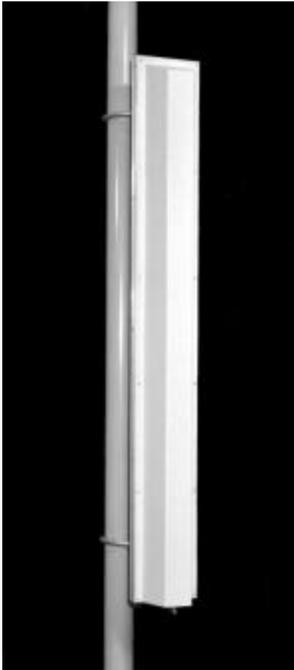




LANtenna Series

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)

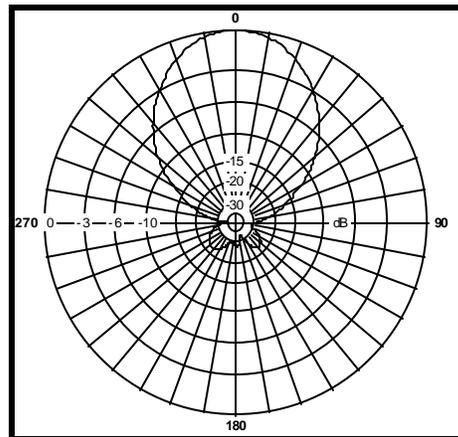
Mechanical Specifications

- 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)

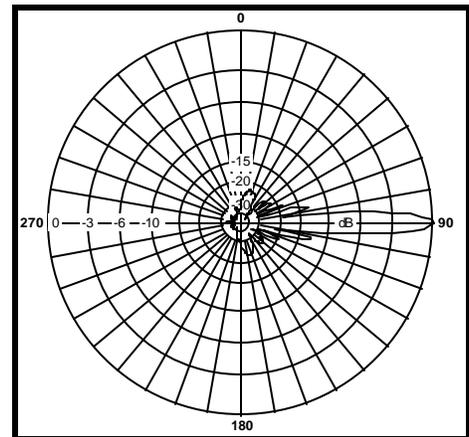
Materials

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

E-Plane



H-Plane

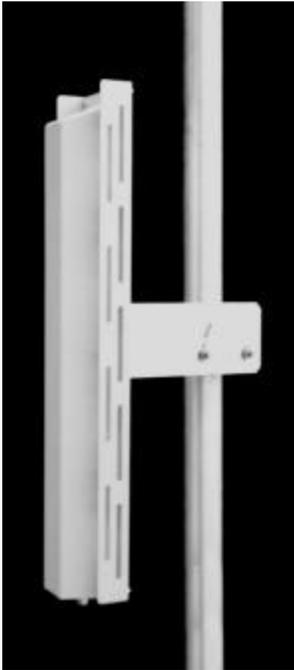




LANTenna Series

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)

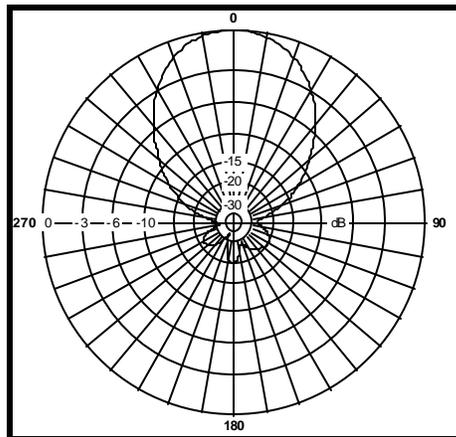
Mechanical Specifications

- 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)

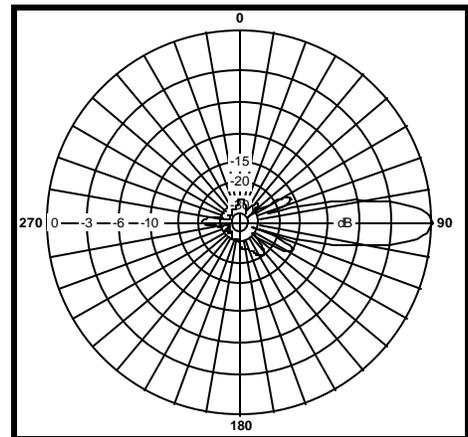
Materials

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

E-Plane



H-Plane

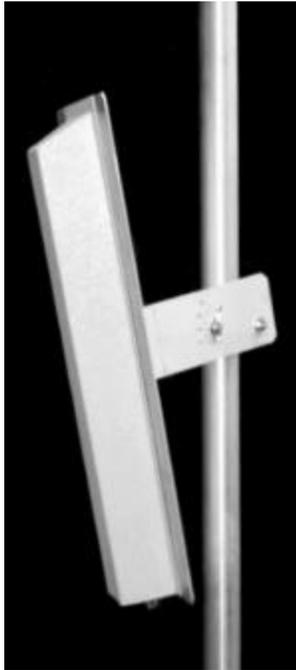




LANtenna Series

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)

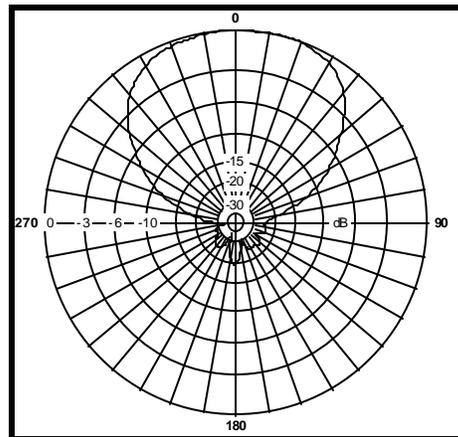
Mechanical Specifications

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)

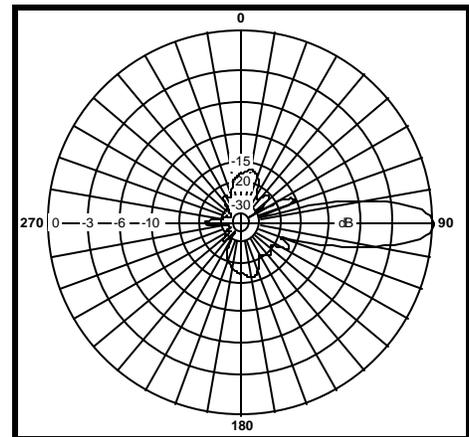
Materials

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)

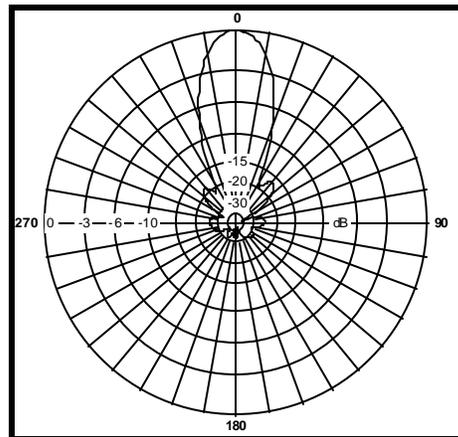
Mechanical Specifications

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

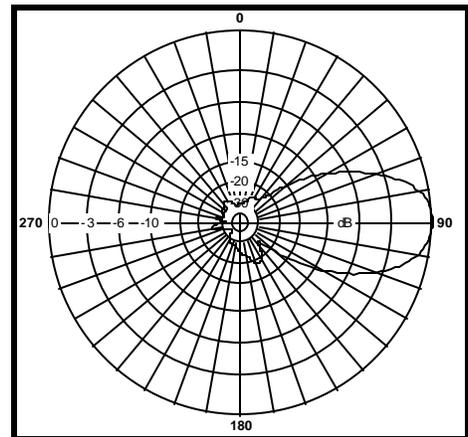
Materials

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

H-Plane



E-Plane





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)

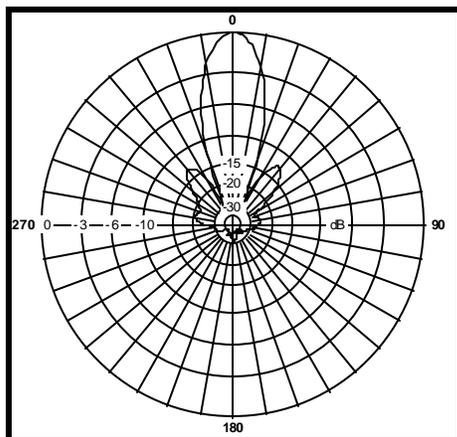
Mechanical Specifications

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)

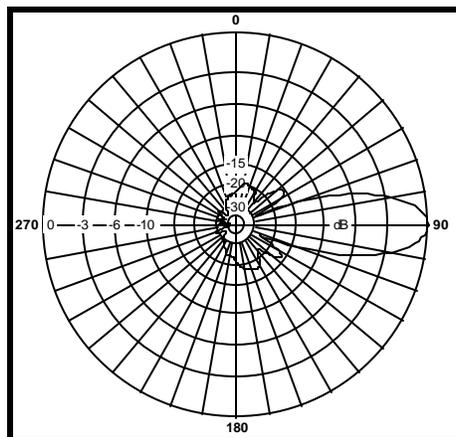
Materials

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

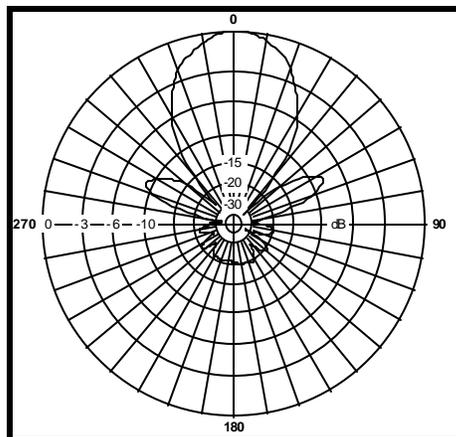
Radiating Elements: Plated copper on PCB

Reflector: Irridited aluminum

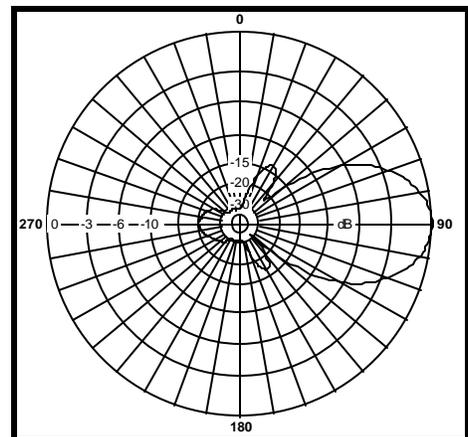
Radome: Gray UV stabilized ASA

Clamps: Aluminum and HDG steel

H-plane



E-Plane

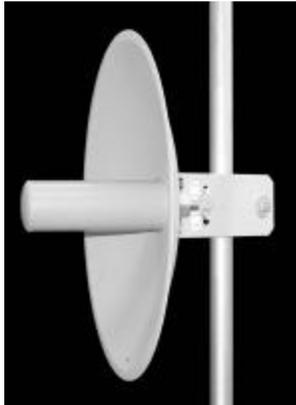




LANtenna Series

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 - 15 degrees

Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

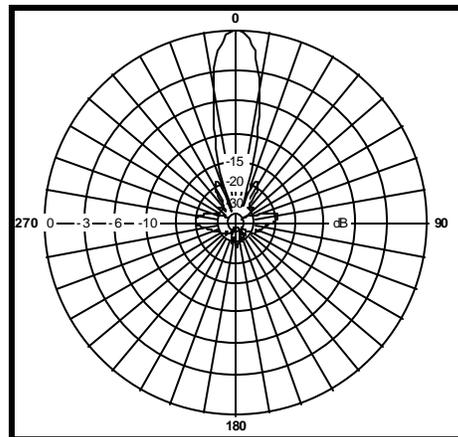
Radiating Elements: Plated copper on PCB

Reflector: Irridited aluminum

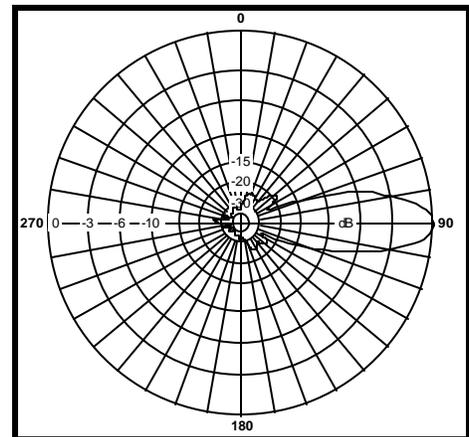
Radome: Gray UV stabilized ASA

Clamps: Aluminum and HDG steel

H-Plane



E-Plane





TA-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 - 15 degrees

Mounting (O.D.): 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

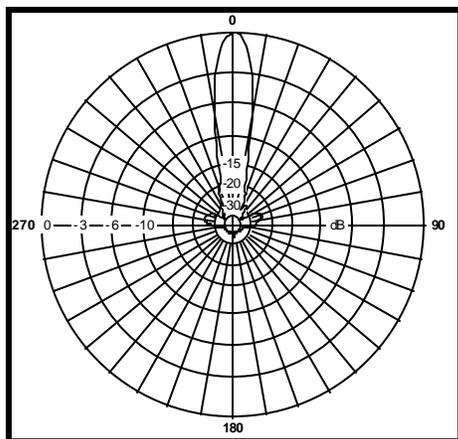
Radiating Elements: Plated Copper on PCB

Reflector: Irridited aluminum

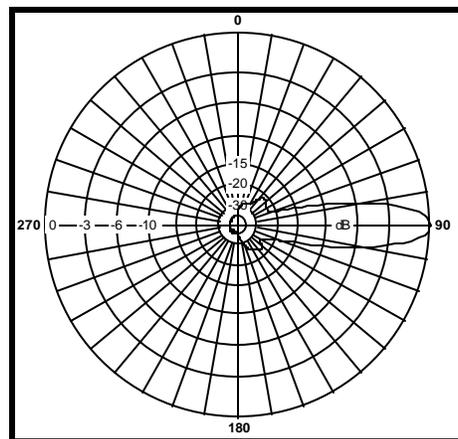
Radome: Gray UV stabilized ASA

Clamps: Aluminum and HDG steel

H-Plane



E-Plane

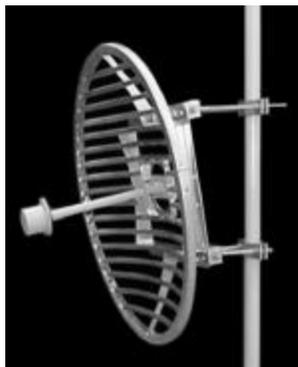




LANtenna Series

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)

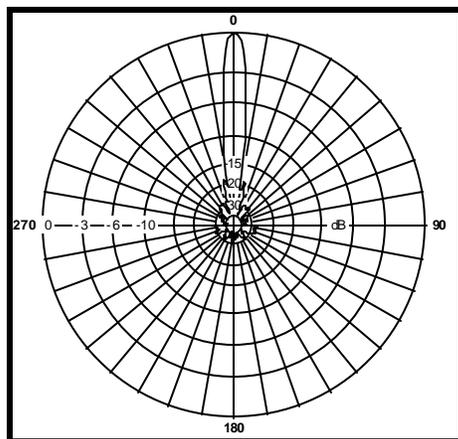
Materials

Radiating Elements: Aluminum

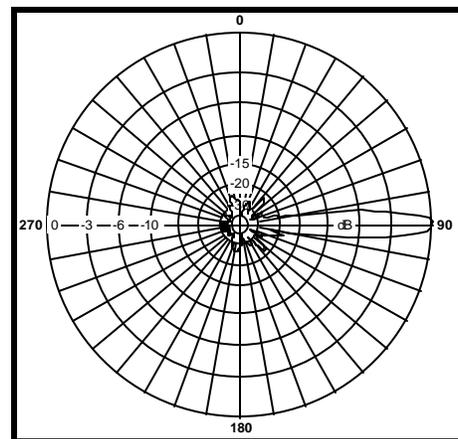
Reflector: Irridited aluminum

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:

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)

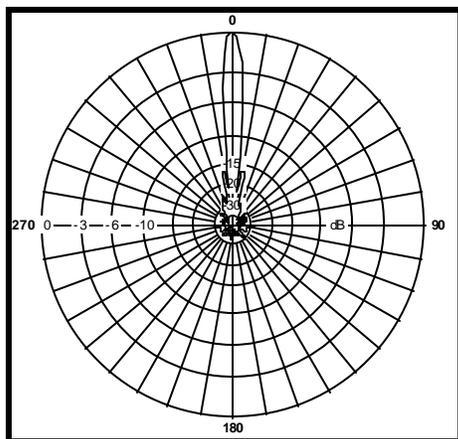
Materials

Radiating Elements: Aluminum

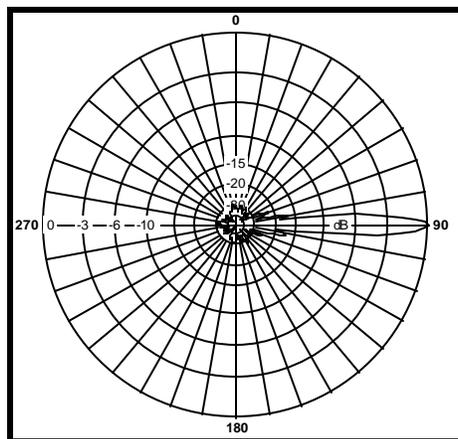
Reflector: Irridited aluminum

Clamps: HDG steel

H-Plane



E-Plane

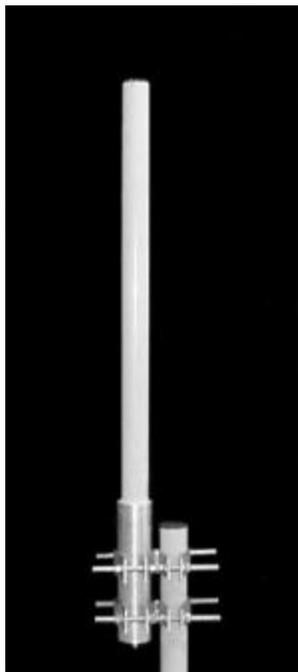




LANTenna Series

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)

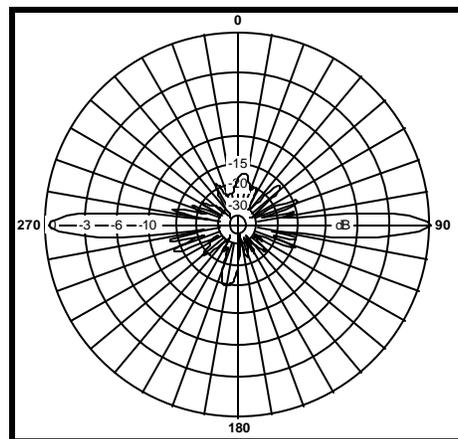
Materials

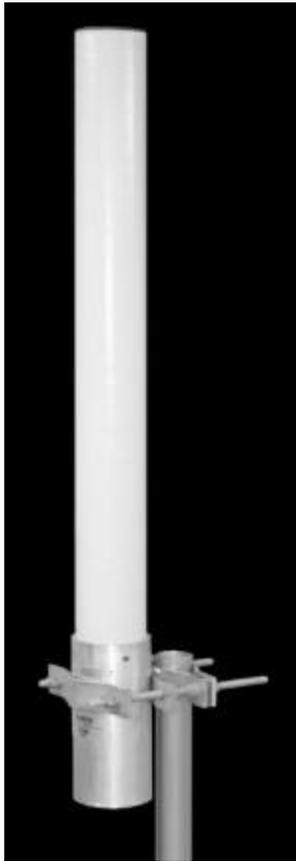
Radiating Elements: Copper

Radome: Gray UV stabilized fiberglass

Clamps: HDG steel

E-Plane





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: 360 degrees
E-Plane Beamwidth: 7 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
Termination: N female

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

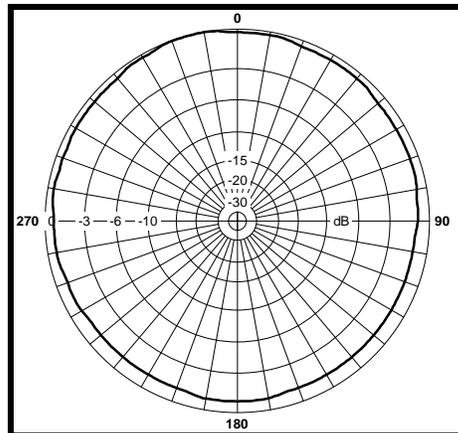
Mechanical Specifications

Length: 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

