



TIL-TEK Antennae



Solutions that Work



Affordable Quality



ISO 9001:2000



Reliability



Service



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

May 31, 2007



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 measurable 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.

2005-12-22

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.

2005-12-22

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.

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

2006-01-31



Advanced Product Information

TA-3307-65 Dual Polarized Sector

The TA-3307-65 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 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: 3400-3800 Mhz

Gain: 17.5 dBi

VSWR: 1.45:1 max.

Polarization: Dual slant +45 and -45

Power: 250 Watts

H-Plane Beamwidth: 65 Degrees

E-Plane Beamwidth: 5.5 degrees

Front to Back Ratio: 25 dB min.

Cross Pol. Discrimination: 15 dB min.

Electrical Beamtilt: 0°

Null Fill: TBD

Port to Port Isolation: 30 dB

3rd Order I.M.(2x20W):

Axial Ratio: N/A

Impedance: 50 ohms nominal

Termination: 7/16 DIN female

Mechanical Specifications

Length: 36.4 in. (925 mm)

Diameter: N/A

Width: 5.5 in. (140 mm)

Depth: 3.5 in. (89 mm)

Weight: 10 lb. (4.5 kg)

Rated Wind Velocity: 125 mph (200 km/h)

Horizontal Thrust at rated wind: 89 lb. (40.4 kg)
with radome: N/A

Mechanical Tilt: 0 - 15 degrees

Mounting Pipe: 1.90 - 4.5 in. (48 - 114 mm)

Pig-Tail Length: N/A

Material Specifications

Radiating Elements: Plated copper on PCB

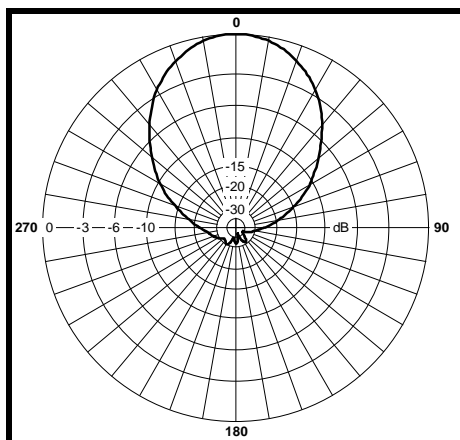
Reflector: Irridited aluminum

Radome: Gray UV stabilized ASA

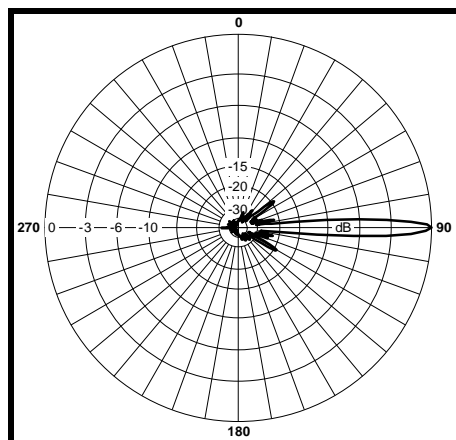
Mounting Hardware: Aluminum, EDZ and HDG Steel

Radiation Patterns/Masks

H-Plane



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)
 Specifications subject to change without notice

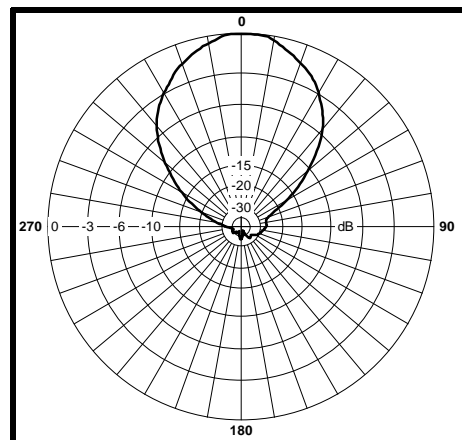
Mechanical Specifications

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)

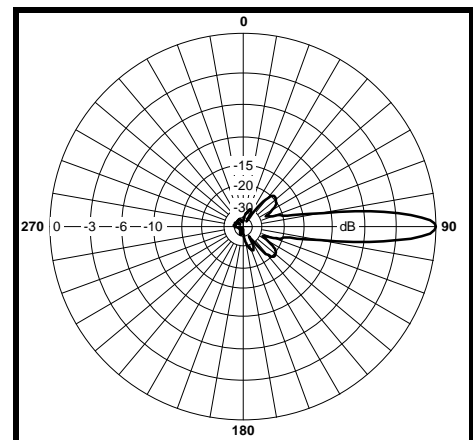
Materials

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)
 Specifications subject to change without notice

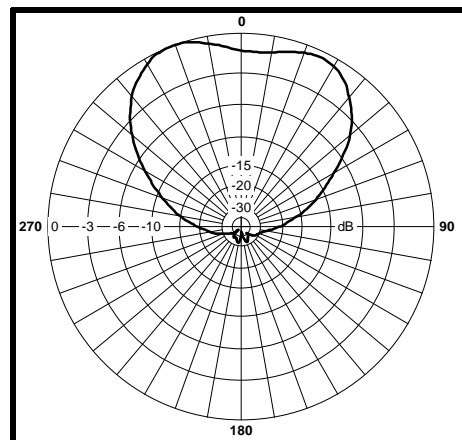
Mechanical Specifications

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)

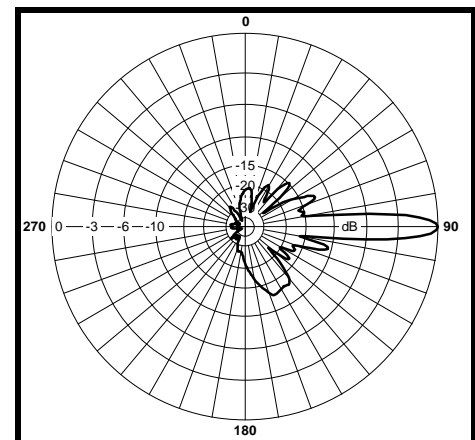
Materials

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

E-Plane



H-Plane



TA-3403-8-60 Sector

3300-3700 MHz



The TA-3403-8-60 is a vertically 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: 3300-3700 MHz
Gain: 17 +/- 1 dBi
VSWR: 1.5:1
Front to Back Ratio: ETSI CS3
Polarization: Vertical
Power Rating: 20 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 8 degrees
Cross Pol. Discrimination: ETSI CS3
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)
 Specifications subject to change without notice

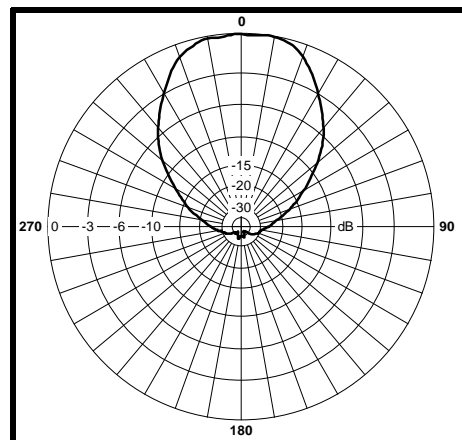
Mechanical Specifications

Length: 27.4 in. (695.9 mm)
Width: 12 in. (304.8 mm)
Depth: 2.83 in. (71.9 mm)
Weight (incl. Clamps): 5 lb. (2.27 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 143 lb. (64.9 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

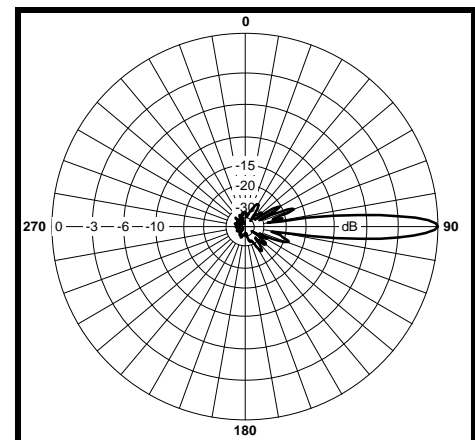
Materials

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

H-Plane



E-Plane



TA-3403-8-90 Sector

3400-3700 MHz



The TA-3403-8-90 is a vertically 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: Vertical
Power Rating: 25 Watts
H-Plane Beamwidth: 90 degrees
E-Plane Beamwidth: 9 degrees
Cross Pol. Discrimination: ETSI CS3
Impedance: 50 ohms nominal
Termination: N female

Typical mid band values. (For details , contact factory)
 Specifications subject to change without notice

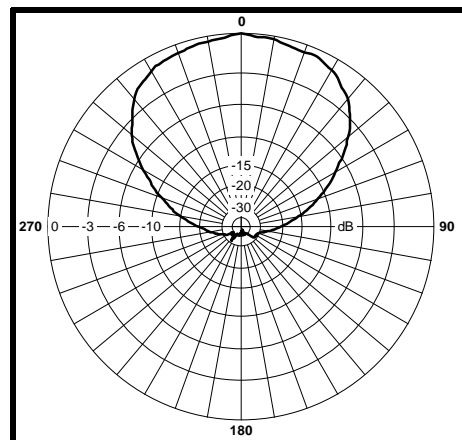
Mechanical Specifications

Length: 27.4 in. (695.9 mm)
Width: 13 in. (330.2 mm)
Depth: 2.3 in. (58.4 mm)
Weight (incl. Clamps): 5 lb. (2.27 kg)
Rated Wind Velocity: 125 mph (200 Km/h)
Hor. Thrust at rated wind: 152 lb. (68.9 kg)
Mechanical Tilt: 0+/-16 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

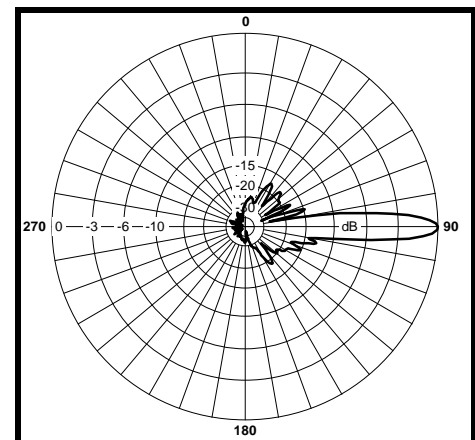
Materials

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

H-Plane



E-Plane



TA-3404-8-60 Sector

3300-3800 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: 3300-3800 MHz
Gain: 17 dBi typ, 16 dBi @ 3700-3800 Mhz
VSWR: 1.5:1 @ 3.4-3.8 GHz, 2:1 @ 3.3-3.4 GHz
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)
 Specifications subject to change without notice

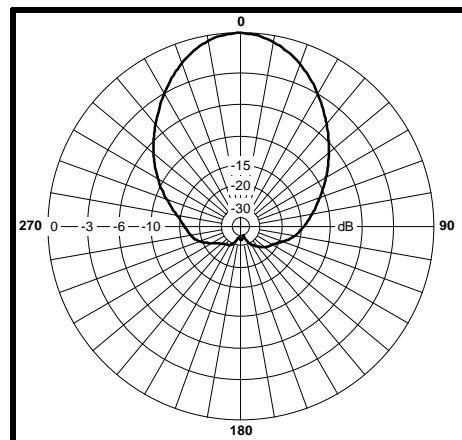
Mechanical Specifications

Length: 27.4 in. (696.7 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 26 lb. (11.8 kg)
Mechanical Tilt: 0 - 20 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

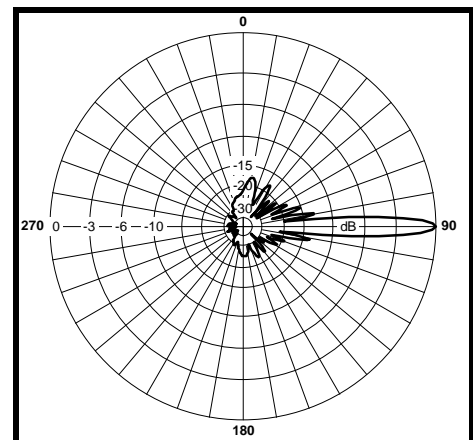
Materials

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

H-Plane



E-Plane



TA-3404-8-90 Sector

3300-3800 MHz



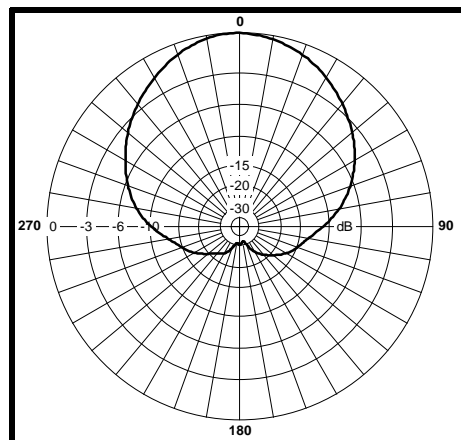
The TA-3404-8-90 is a vertically polarized 90 degree sectoral antenna. The antenna complies with ETSI EN 302 085 V1.1.2 Section 6.1 CS1 standard. The TA-3404-8-90 consists of a printed broadband dipole array enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The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

Electrical Specifications

Frequency Range: 3300-3800 MHz
Gain: 15.5 dBi
VSWR: 2:1 @ 3300-3400 MHz
 1.5:1 @ 3400-3700 MHz
 1.7:1 @ 3700-3800 MHz
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)
 Specifications subject to change without notice

H-Plane



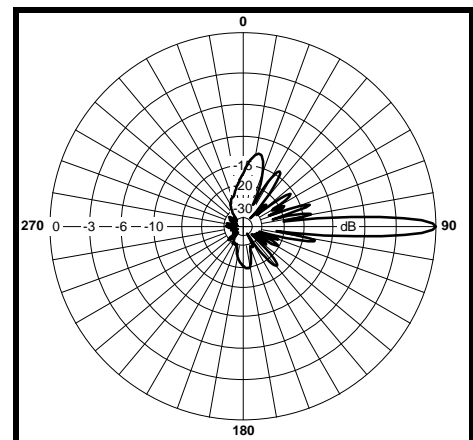
Mechanical Specifications

Length: 27.4 in. (696.7 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 26 lb. (11.8 kg)
Mechanical Tilt: 0 - 20 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: EDZ and HDG steel

E-Plane



TA-3404-8-120 Sector

3300-3800 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: 3300-3800 MHz
Gain: 14 dBi
VSWR: 1.5:1 @ 3.4-3.8 GHz, 2:1 @ 3.3-3.4 GHz
Front to Back Ratio: 20 dB min. 25 typical
Polarization: Vertical
Power Rating: 50 Watts
H-Plane Beamwidth: 120° typ., 130° @ 3800 Mhz
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)
 Specifications subject to change without notice

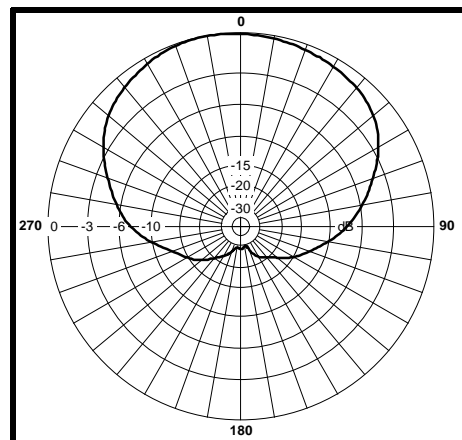
Mechanical Specifications

Length: 27.4 in. (696.7 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 5 lb. (2.3 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 26 lb. (11.8 kg)
Mechanical Tilt: 0 - 20 degrees
Mounting (O.D.): 0.75 - 3.0 in. (19 - 76 mm)

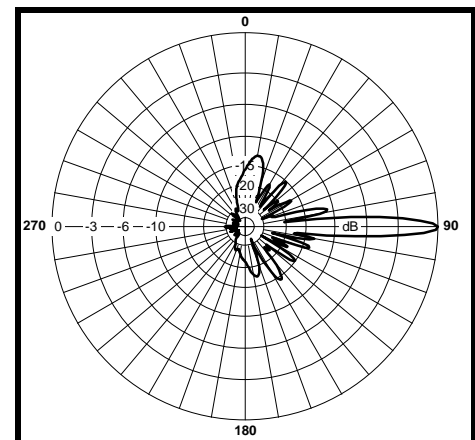
Materials

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

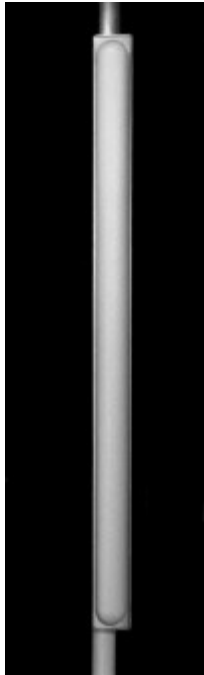
H-Plane



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

Mechanical Specifications

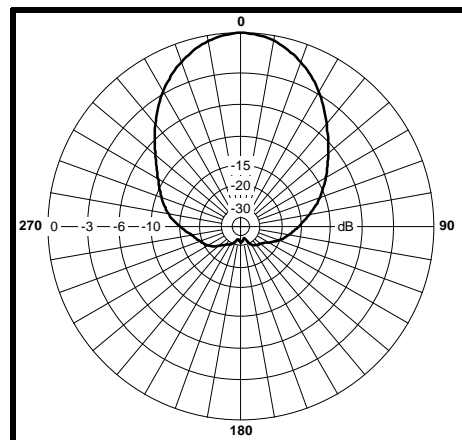
Length: 53 in. (1346 mm)
Width: 3.25 in. (83 mm)
Depth: 3 in. (76 mm)
Weight (incl. Clamps): 7 lb. (3.2 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 50 lb. (22.7 kg)
Mechanical Tilt: 0 - 15 degrees
Mounting (O.D.): 0.75 - 2.0 in. (19 - 51 mm)

Materials

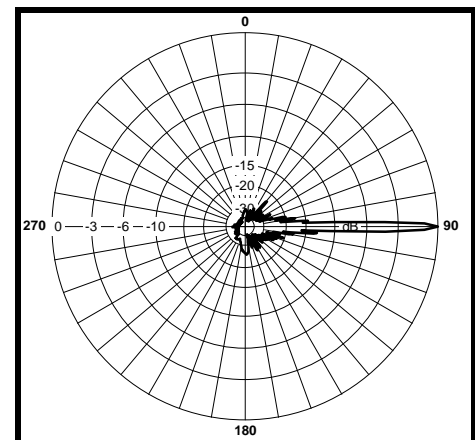
Radiating Elements: Tin plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Clamps: Aluminum and stainless steel

Typical mid band values. (For details , contact factory)
 Specifications subject to change without notice

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)
 Specifications subject to change without notice

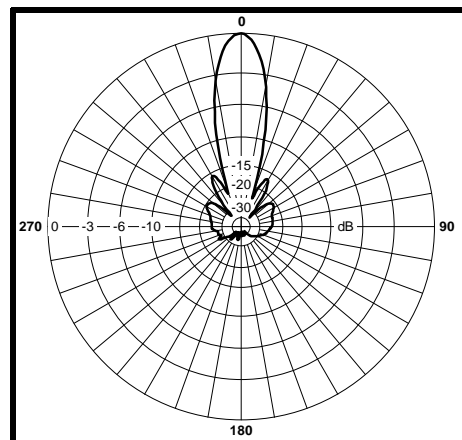
Mechanical Specifications

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)

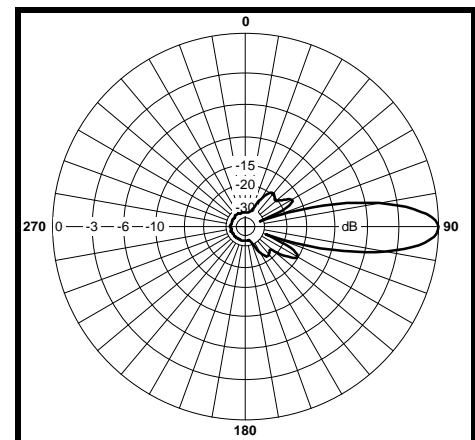
Materials

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)
 Specifications subject to change without notice

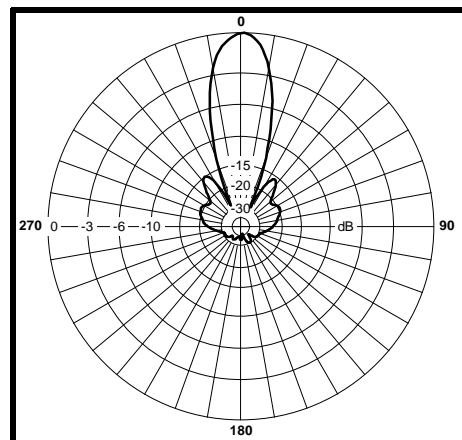
Mechanical Specifications

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)

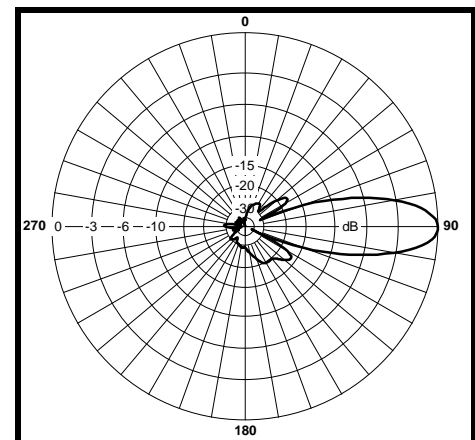
Materials

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

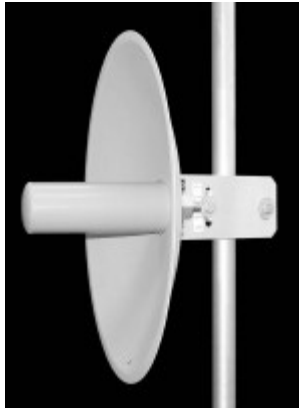
H-Plane



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)
 Specifications subject to change without notice

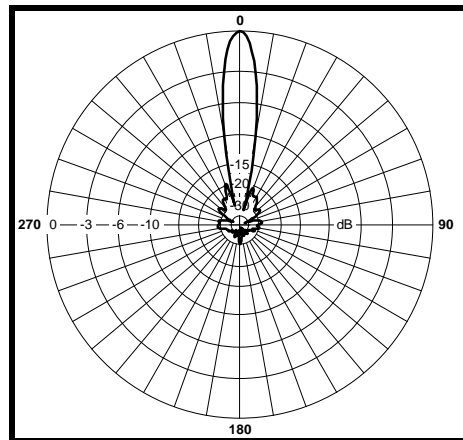
Mechanical Specifications

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)

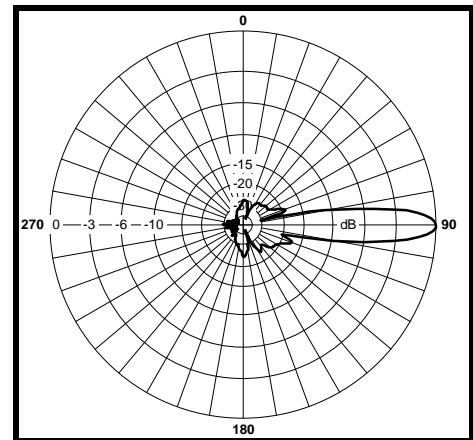
Materials

Radiating Elements: Tin plated copper on PCB
Reflector: Irridated 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)
 Specifications subject to change without notice

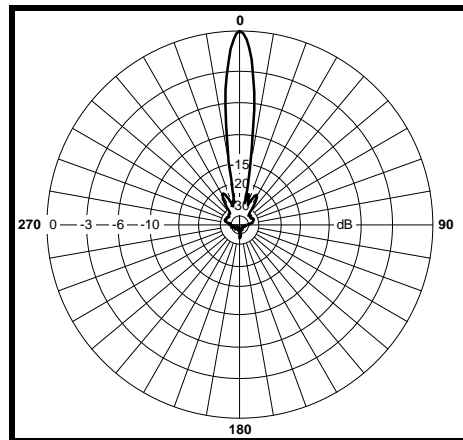
Mechanical Specifications

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

