



New High Gain Array Antenna
 P/N: 18X18A-TL-P-XT-1 (Thuraya); P/N: 18X18A-INR-P-XT-1 (Inmarsat/Iridium)
 P/N: 18X18A-1.6-1.9V-P-XT-1 (1.6 - 1.9 GHz); P/N: 18X18A-2.2-2.3V-P-XT-1 (2.2 - 2.3 GHz)
 P/N: 18X18A-2.2-2.4V-P-XT-1 (2.2 - 2.4 GHz); P/N: 18X18A-2.2-2.5V-P-XT-1 (2.2 - 2.5 GHz)
 P/N: 18X18A-2.4-2.5V-P-XT-1 (2.4 - 2.5 GHz); P/N: 18X18A-LSV-P-XT-1 ((1.625 - 1.85)/(2.2 - 2.4) GHz)



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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TNC FEMALE CONNECTOR
 (Option: SMA, QMA, SMB, N)
 (Connector Location can be Customized)

4X 1/4-20 UNC STUD
 (-DT OPTION)

2.756 [70.00]
 3.543 [90.00]

18.790 [477.27] SQ.

5.583 [141.82]

8X 2.914 [74.02]
 8X 2.729 [69.32]

20X ø.156 [ø3.96] THRU
 (Bottom or Side Mounting Holes can be Customized)

SPECIFICATIONS

ELECTRICAL:
 FREQUENCY: (X.XX - X.XX) GHz - See Below Table for P/N
 PATTERN: DIRECTIONAL
 POLARIZATION: RHCP, LHCP, or LINEAR - See Below Table for P/N
 ANTENNA GAIN: 17 dB
 BEAM WIDTH: EL: 22 Deg.
 AZ: 22 Deg.
 VSWR: 2.0:1
 OUTPUT IMPEDANCE: 50 ohms
 POWER HANDLING: 100 watts
 DC GROUNDING: YES

LNA OPTION (For Rx Only):
 LNA GAIN: 33 dB (P1dBout = +13 dBm)
 LNA NOISE FIGURE: 2.2 dB
 LNA VOLTAGE: (+2.5 to +24) Volts DC
 LNA DRAWING CURRENT: < 30 mA

MECHANICAL:
 SIZE: 18.8 in x 18.8 in x 0.56 in
 WEIGHT: 2.7 lbs (1.22 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
 CONNECTOR: TNC FEMALE (OPTION: SMA, QMA, SMB, N)

ENVIRONMENTAL:
 TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 30,000 ft.
 VIBRATION: > 20 G's
 LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:
DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

QUANTITY	DESCRIPTION	PART NO	FINISH	REV
1				3
1				2
1				1

FREQUENCY BAND:	S/C-BAND POL.	LNA:	CONNECTOR:	COLOR:
T: Rx/Tx Thuraya	V: VERTICAL	A: ACTIVE	S: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
IN: Rx/Tx Inmarsat/Iridium	R: RHCP	P: PASSIVE	Q: QMA	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
1.6-1.9: (1.6 - 1.9) GHz	L: LHCP		SMB: SMB	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
2.2-2.3: (2.2 - 2.3) GHz			T: TNC	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
2.2-2.4: (2.2 - 2.4) GHz			N: N	-5: TAN #33446 PER FED-STD-595B
2.4-2.5: (2.4 - 2.5) GHz				
2.2-2.5: (2.2 - 2.5) GHz				
LS: (1.625 - 1.85)/(2.2 - 2.4) GHz				
X.X-Y.Y: (X.XX - Y.YY) GHz				

18X18A-X.X-Y.YV-P-XT-5

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 .002 .010 ± .1°		<p>ANTCOM CORP. TORRANCE, CALIFORNIA</p> <p>Rx/Tx- Thuraya or Inmarsat/Iridium Antenna</p>
<p>REMOVE ALL SHARP BREAK EXTERNAL EDGES .005 TO .010 FILED & .010 TO .030 SMOOTH FILED PER MIL-C-8879 PARTS OR A COMBIN. & 27.015 MACHINED SURFACES 1/2</p> <p>DO NOT SCALE DRAWING</p>	<p>ORIGINAL DESIGN: S. HUYNH Mar-12-12</p> <p>ORIGINAL DESIGNED: S. HUYNH Mar-12-12</p> <p>UPDATED: S. HUYNH Mar-10-14</p> <p>UPDATE DRAWN: F. TRAN Mar-10-14</p> <p>APPROVED: S. HUYNH Mar-10-14</p>	<p>SCALE: 1/1</p> <p>SHEET 1 OF 1</p>