



ISO 9001:2008/FAA Approved Facility

IRIDIUM/GPS Antenna, P/N: 0.5R1216P-XTM-4

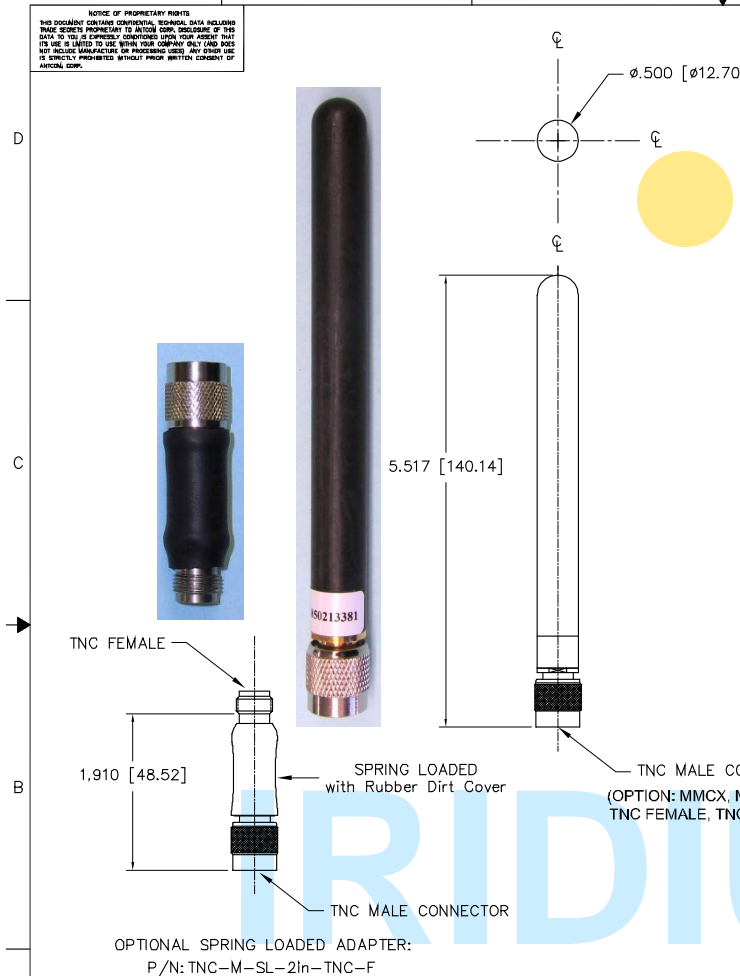
0.5" Diameter x 4.4" Tall, Threaded Bottom Mount Configuration



Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1	Ultrem 2200 Black (20% Glass)	Aug-10-10	S.H
B	1	Dirt Cover for Spring Loaded Adapter	Feb-01-11	S.H

ELECTRICAL:		(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)
FREQUENCY (MHz):						
GAIN in FS/3in GP (dBic)	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	
@ 90° (Zenith):	-1.6	-2.9	+0.1	+0.5	+0.5	
@ 10° Elevation:	-4.5	-6.0	-2.1	-2.0	-2.0	
@ 20° Elevation:	-3.5	-5.0	-1.1	-0.9	-0.9	
@ 30° Elevation:	-2.8	-4.2	-0.7	-0.3	-0.3	
@ 45° Elevation:	-2.3	-3.5	-0.2	+0.3	+0.3	
@ 70° Elevation:	-1.8	-3.0	-0.4	+0.2	+0.2	
BEAM WIDTH (3dB)	152 Deg.	150 Deg.	170 Deg.	1 to 3	160 Deg.	
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 2.0:1					

LNA OPTION for GPS:

LNA GAIN: (27.0+/-2.0) dB
 LNA NOISE FIGURE: <1.4 dB
 LNA P 1dB Out: +13 dBm
 VOLTAGE/CURRENT: (3-10) Volts/ 20mA

MECHANICAL:

SIZE: DIAMETER: 0.50 in. [12.70 mm]
 HEIGHT: 5.517 in. [140 mm]
 WEIGHT: 0.92 oz (26 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, BLACK ANODIZING (MIL-A-8625F, Type II Class II)
 COLOR: See Below Description
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: TNC MALE (OPTION: MMCX, MCX, SMP, SSMC, SMA, BNC TNC FEMALE, TNC-BULKHEAD, N, N-BULKHEAD, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-A-8625F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	FEMALE CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1216: L1/L2/Inmarsat	A1: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.5: 1.9" SQ. (FLAT)	1215: L1/L2		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.8" DIA. (FLAT)	15: L1	P: WITHOUT LNA	R: CABLE LENGTH (IN)	SMP, SSMC; B: BNC	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.8" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: Natural Back Color from Ultrem 2200 Black (20% Glass)
0.5R: 0.5" DIA. RHCP HELIX				TM: TNC MALE	-8: Desert Tan
0.5L: 0.5" DIA. LHCP HELIX				N: N; NB: N-Bulkhead	
S3: (HELIX ROD)					
S8: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

QUANTITY	REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1	1		-	-	-	1
-2	-1					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DECIMAL DIMENSIONS	FRACTIONS	ANGLES
	± 0.015	± 1/64	± 1°
	± 0.010	± 1/80	± 0.5°
	± 0.005	± 1/160	± 0.25°

DATE	REV	DESCRIPTION	BY	CHKD
Feb-23-04	1	0.5R1216P-XTM-4	S. HUYNH	

NMO Connector is Now Available for Some Antennas