



FAA Approved Facility

Hermetically Sealed, Ruggedized and High Vibration/Shock Resistant Active GPS/Glonass Antenna
 P/N: 1.3G1215A2-XS-4-SO4 (L1/L2), P/N: 1.3G15A2-XS-4-SO4 (L1)
 L1/Inmarsat/Iridium: P/N: 1.3GL1RxINA2-XS-4-SO4 (Active Rx only), P/N: 1.3GL1RxINP-XS-4-SO4 (Passive Tx/Rx)
 Other Frequency Bands are also Available
 Top or Back Mount, Bottom Connector Configuration with O-Ring

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


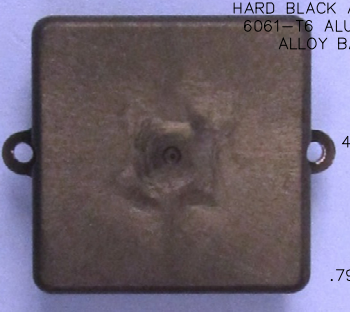



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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		WEIGHT	08/30/17	S.H

SPECIFICATIONS

ELECTRICAL:

	L1 GPS: 1575.42 ± 15.0 MHz	L2 GPS: 1227.60 ± 12 MHz	L1 GLONASS: 1598 - 1609 MHz	L2 GLONASS: 1242 - 1252 MHz
FREQUENCY:				
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP			
VSWR:	< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.	Free Space	3 in G.P.
@ 90 ° (ZENITH):	+ 0.4	+ 3.2	- 2.2	+ 0.0
@ 10 ° Elevation:	- 4.6	- 4.1	- 10.6	- 4.4
@ 15 ° Elevation:	- 4.5	- 3.8	- 8.5	- 3.5
@ 20 ° Elevation:	- 4.5	- 3.5	- 6.3	- 2.5
@ 30 ° Elevation:	- 3.3	- 1.8	- 4.0	- 1.7
@ 40 ° Elevation:	- 2.5	- 0.6	- 3.3	- 1.6
@ 50 ° Elevation:	- 2.0	+ 0.5	- 3.3	- 1.5
@ 60 ° Elevation:	- 1.5	+ 1.5	- 3.3	- 0.9
@ 70 ° Elevation:	- 0.7	+ 2.4	- 3.2	- 0.4
@ 80 ° Elevation:	+ 0.1	+ 3.0	- 3.2	- 0.1
BEAM WIDTH (3dB):	100 Deg.	80 Deg.	100 Deg.	140 Deg.
AXIAL RATIO:	1.0 dB		3.0 dB	
LIGHTNING PROTECTION:	DC GROUNDING			

LNA OPTION:

LNA GAIN: 24.0 dB (Option: 43 dB)
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +10 dB
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 1.320 in. [33.53 mm] SQ.
 HEIGHT: .692 in [17.58 mm]
 WEIGHT: 1.75 oz. (49.6 g)
 FINISH: BASE: HARD BLACK ANODIZE PER MIL-A-8625F, TYPE III, CLASS 2
 RADOME: SKYDROL RESISTANT POLYURETHANE ENAMEL PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE CONNECTOR
 OPTION: MCX, QMA, TNC, SMB, SSMA, SSMB, SSMC, SSMP, MCX, OR SMP

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: ~ 20K G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

SIZE: 1: 2" SQ. 2: 2.6" DIA. 3: 3.5" DIA. 4: MINI ARINC

FREQ. BAND: 1: 1215 L1/L2 1.8: 1.9" SQ. 2: 2.6" DIA. 3: 3.5" DIA. 4: MINI ARINC

LNA: A1: WITH 24 dB LNA A2: WITH 43 dB LNA P: WITHOUT LNA

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GABLES LENGTH:	MALE PLUG CONNECTOR:	FEMALE JACK CONNECTOR:	COLOR:
XS: NO CABLE	SM: SMA Male	Q: QMA, S: SMA, RS: R-SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
TR: MAG. N: NO MAG.	TM: TNC Male	MM: MMCO, SMB, SSMA, SSMB, SSMC, SSMP	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
FR: CABLE LENGTH (IN)	SMBM: SMB Male	T: TNC, IC: MCX, SMP: SPM Jack	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
RR: RIGHT ANGLE CON.	SSMPM: SSMP Plug		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	L-R: Right Angle Male Lemo		-5: DESERT TAN #33446 PER FED-STD-595B

1	2	3	4	5	6	7
1	O-RING	MS28776-25	-	-	-	1
-2	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH
QUANTITY REQD		PARTS LIST		PARTS LIST		

ANTCOM CORP. TORRANCE, CALIFORNIA

HERMETICALLY SEALED
 ACTIVE L1/L2
 GPS/GLONASS ANTENNA

D 3CVE1 1.3G1215A2-XS-4-SO4 A

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas