



FAA Approved Facility

Hermetically Sealed, Ruggedized and High Vibration/Shock Resistant Active GPS/Glonass Antenna

P/N: 1.3G1215A2-XS-4-SO2 (L1/L2), P/N: 1.3G15A2-XS-4-SO2 (L1)

L1/Inmarsat/Iridium: P/N: 1.3GL1RxINA2-XS-4-SO2 (Active Rx only), P/N: 1.3GL1RxINP-XS-4-SO2 (Passive Tx/Rx)

Other Frequency Bands are also Available

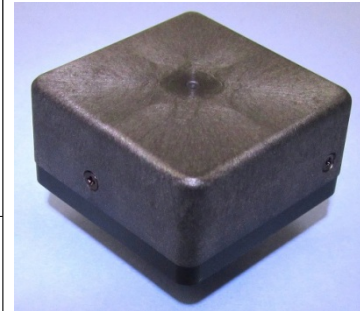
Back Mount, Bottom Connector Configuration with O-Ring

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

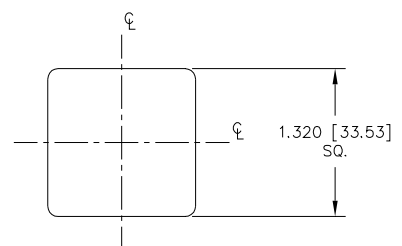


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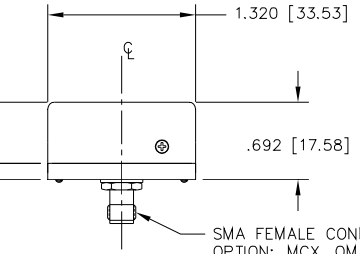


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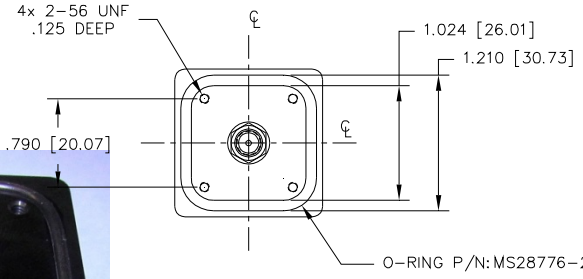


.547 [13.89]
1 PIECE RADOME FROM TOP TO BOTTOM, HERMATICALLY SEALED WITH NO AIR GAP

.145 [3.68]
HARD BLACK ANODIZE 6061-T6 ALUMINUM ALLOY BASE



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



SIZE	FREQ. BAND	LNA
1: 2" SQ	1215: L1/L2	A2: WITH 24 dB LNA
1.9: 1.9" SQ	15: L1 ONLY	A4: WITH 43 dB LNA
2: 2.6" DIA.	B3B1	P: WITHOUT LNA
3: 3.5" DIA.	B3L1	
4: MINI ARINC	L1RXIN	

P/N: 1.3G1215A2-XS-4-SO2

CABLE'S LENGTH:	MALE/PLUG CONNECTOR:	FEMALE/JACK CONNECTOR:	COLOR:
X: NO CABLE	SM: SMA Male	Q: QMA, S: SMA, RS: R-SMA,	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG.	TM: TNC Male	MM: MMCX, SMB, SSMA, SSMB, SSMC, SSMP	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	SMBM: SMB Male	T: TNC, M: MCX, SMP: SPM Jack	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	SSMPM: SSMP Plug	L-RM: Right Angle Male Lemo	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	L-RM: Right Angle Male Lemo		-5: DESERT TAN #33446 PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

	REVISIONS				
	ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	-	-	-	-

	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: 1.9 oz. (53.9 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-145208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

1	0-RING	MS28776-25	-	-	-	1	
QUANTITY	RECD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
							1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	FRACCTIONS	DECIMALS	ANGLES
± 1/64	± .001	± .005	± 1°

ORIGINALLY DRAWN	ORIGINALLY DESIGNED	UPDATED	UPDATE DRAWN	APPROVED
S. HUYNH Mar-11-05	S. HUYNH Mar-11-05	S. HUYNH Dec-12-12	P. TRAN Dec-12-12	S. HUYNH Dec-12-12

ANTCOM CORP.	1208888A
HERMETICALLY SEALED ACTIVE L1/L2 GPS/GLONASS ANTENNA	
SCALE 1/1	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas