



FAA Approved Facility

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

P/N: 1.3G1215A2-XS-4-SO8 (L1/L2), P/N: 1.3G15A2-XS-4-SO8 (L1)

L1/Inmarsat/Iridium: P/N: 1.3GL1RxINA2-XS-4-SO8 (Active Rx only), P/N: 1.3GL1RxINP-XS-4-SO8 (Passive Tx/Rx)




Other Frequency Bands are also Available

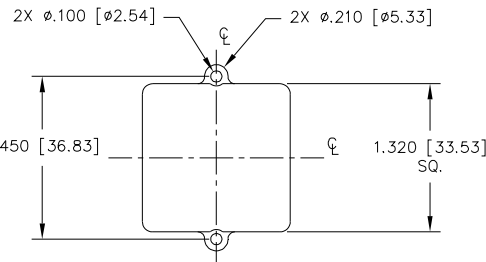
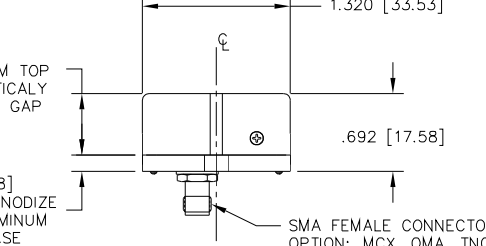
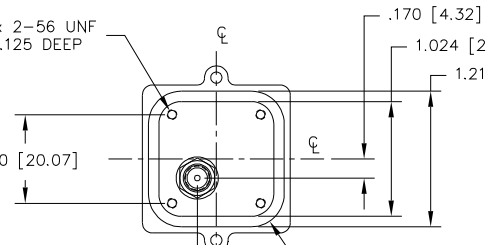
Top or Back Mount, Bottom Connector Configuration with O-Ring

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



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1 GPS: 1575.42 ± 15.0 MHz	L2 GPS: 1227.60 ± 12 MHz
	L1 GLONASS: 1598 - 1609 MHz	L2 GLONASS: 1242 - 1252 MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 2.0:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.
@ 90° (ZENITH):	+0.4	+3.2
@ 10° Elevation:	-4.6	-4.1
@ 15° Elevation:	-4.5	-3.8
@ 20° Elevation:	-4.5	-3.5
@ 30° Elevation:	-3.3	-1.8
@ 40° Elevation:	-2.5	-0.6
@ 50° Elevation:	-2.0	+0.5
@ 60° Elevation:	-1.5	+1.5
@ 70° Elevation:	-0.7	+2.4
@ 80° Elevation:	+0.1	+3.0
BEAM WIDTH (3dB):	100 Deg.	80 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: 1.3 oz. (36.8 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-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

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2X ϕ .100 [ϕ 2.54] 2X ϕ .210 [ϕ 5.33]

.450 [36.83] 1.320 [33.53] SQ.

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

.145 [3.68]
 ANODIZE PER MIL-A-8625F
 ALUMINUM ASE

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

x 2-56 UNF
 .125 DEEP

.170 [4.32] 1.024 [26.01] 1.210 [30.73]

.90 [20.07]

.170 [4.32] O-RING P/N: MS28776-25

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215, L1/L2	A1: 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-SO8

MALE/PLUG CONNECTOR:	FEMALE/JACK CONNECTOR:	COLOR:
SM: SMA Male	Q: QMA, S: SMA, RS: R-SMA	1: GLOSS WHITE #17925 PER FED-STD-595B
TM: TNC Male	MM: MMXC, SMB, SSMA, SSMB, SSMC, SSMP	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
SMBM: SMB Male	T: TNC, M: MCX, SMP: SPM Jack	3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
SSMPM: SSMP Plug		4: LUSTERLESS BLACK #37038 PER FED-STD-595B
L-RM: Right Angle Male Lemo		5: DESERT TAN #33446 PER FED-STD-595B

ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

1	0-RING	MS28776-25	-	-	-	1	
-2	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	THEM NO
PARTS LIST							

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .004 .006 ± .11	ORIGINALLY DRAWN S. HUYNH Mar-11-05	ANTCOM CORP. HERMETICALLY SEALED ACTIVE L1/L2 GPS/GLONASS ANTENNA
TOLERANCE SURF PER ANSI Y14.5 REMOVE ALL BURRS BREAK SHARP EDGES .005 TO .015 FILED R .005 TO R .010 FILED R .005 TO R .010 FILED R .005 TO R .010	ORIGINALLY DESIGNED S. HUYNH Mar-11-05	
DATE	DESIGNED	
DATE	DESIGNED	
DATE	DESIGNED	
APPROVED S. HUYNH Mar-07-13	DATE	DESIGNED
DO NOT SCALE DRAWING	SCALE 1/1	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas