



FAA Approved Facility

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

P/N: 1.3G1215A2-XSM-4-FC2 (L1/L2), P/N: 1.3G15A2-XSM-4-FC2 (L1)

L1/Inmarsat/Iridium: P/N: 1.3GL1RxINA2-XSM-4-FC2 (Active Rx only), P/N: 1.3GL1RxINP-XSM-4-FC2 (Passive Tx/Rx)

Other Frequency Bands are also Available


Top Mount Configuration with O-Ring

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




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



ACTIVE L1/L2 GPS ANTENNA
P/N: 1.3G1215A2-XSM-4-FC2
S/P/N: 3345513
MFG: JAN 04 2013
ANTCOM CORPORATION, CA

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: 1.31 in. [33.29 mm]
WEIGHT: 2.4 oz. (68.0 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: FIXED SMA MALE
(OPTION: QMA, MCX, SMB, OR SMP)

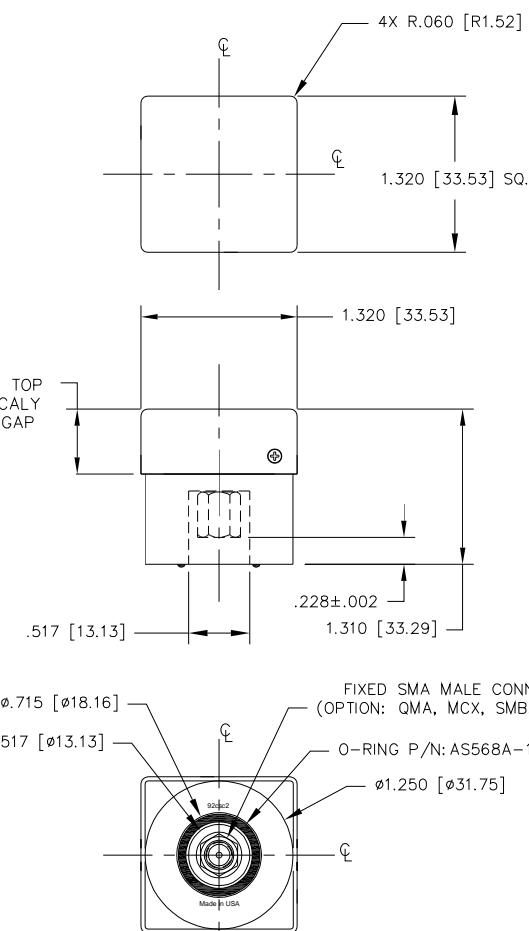
ENVIRONMENTAL:

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



4X R.060 [R1.52]
1.320 [33.53] SQ.
1.320 [33.53]
.228±.002
.517 [13.13] 1.310 [33.29]
0.715 [Ø18.16]
0.517 [Ø13.13]
FIXED SMA MALE CONNECTOR (OPTION: QMA, MCX, SMB, OR SMP)
O-RING P/N: AS568A-15
Ø1.250 [Ø31.75]

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2 GPS/GLONASS	A2: WITH 20 dB LNA
1.9: 1.9" SQ.	15: L1 GPS/GLONASS	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-XSM-X-FC2

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	SM: SMA Male; QF: QMA Female	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG, N: NO MAG.	M: MCX Male	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	SMPM: SMP MALE; SMPF: SMP FEMALE	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	SMBP: SMB Plug	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33446 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

ANTCOM CORP. TORRANCE, CALIFORNIA

GPS/Satcom ANTENNA

REV: 3CVE1
SCALE: 1/1
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas