



ISO 9001:2008/FAA Approved Facility

**Ruggedized, Hermetically Sealed Active GPS/Glonass Antenna**

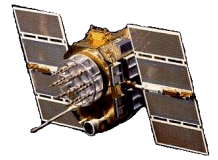
P/N: 1.2G1215A2-XSM-X-FC (L1/L2), P/N: 1.2G15A2-XSM-X-FC (L1)

L1/Inmarsat/Iridium: P/N: 1.2GL1RxINA2-XSM-X-FC (Active Rx only), P/N: 1.2GL1RxINP-XSM-X-FC (Passive Tx/Rx)

Other Frequency Bands are also Available, 1.3" Square, Fixed Connector, Quick Mount Configuration


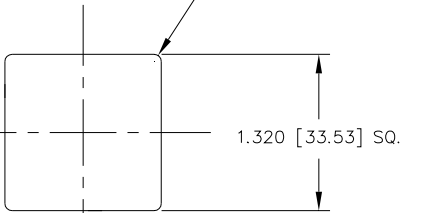
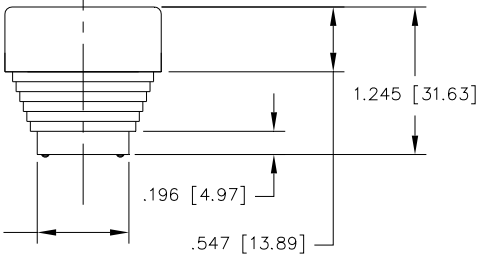

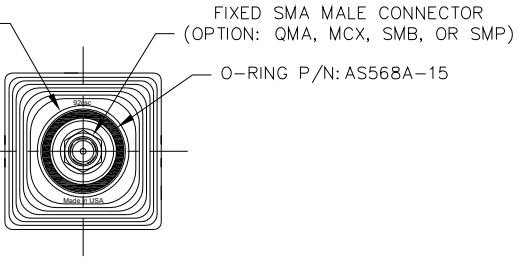
Gooseneck and Other Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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



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4X R.060 [R1.52]  
1.320 [33.53] SQ.  
1.245 [31.63]  
.775 [19.69]  
.196 [4.97]  
.547 [13.89]  
Ø.775 [Ø19.69]  
FIXED SMA MALE CONNECTOR (OPTION: QMA, MCX, SMB, OR SMP)  
O-RING P/N: AS568A-15

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	L1 GPS: 1575.42 ± 15.0 MHz	L2 GPS: 1227.60 ± 12 MHz
RADIATION PATTERN:	L1 GLONASS: 1598 - 1609 MHz	L2 GLONASS: 1242 - 1252 MHz
POLARIZATION:	HEMISPHERICAL	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBi):	Free Space	3 in G.P.
@ 90 ° (ZENITH):	- 0.8	+ 3.8
@ 10 ° Elevation:	- 9.3	- 4.3
@ 20 ° Elevation:	- 6.8	- 2.2
@ 30 ° Elevation:	- 5.2	- 0.7
@ 60 - 90 ° Elevation:	> - 2.1	> 2.5
BEAM WIDTH (3dB):	100 Deg.	120 Deg.
AXIAL RATIO:	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

**LNA OPTION:**

LNA GAIN: 24.0 dB  
LNA NOISE FIGURE: 1.8 dB  
LNA P 1dB Out: +16 dBm  
VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

**MECHANICAL:**

SIZE: 1.320 in. [33.53 mm] SQ.  
HEIGHT: 1.245 in. [31.63 mm]  
WEIGHT: 1.82 oz. (51.6 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: 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: > 30 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

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	

**ANTCOM CORP.** TORRANCE, CALIFORNIA

**GPS/Satcom ANTENNA**

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

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
FRACTIONS: DECIMALS: ANGLES  
± 1/64 .xxx .005 ± 1'

ORIGINAL DRAWN: S. HUYNH Mar-11-05  
ORIGINAL DESIGNED: S. HUYNH Mar-11-05  
UPDATED: S. HUYNH Dec-03-12  
UPDATE DRAWN: P. Iron Dec-03-12  
APPROVED: S. HUYNH Dec-03-12

DO NOT SCALE DRAWING

QUANTITY REQD: 1  
DESCRIPTION: O-RING  
PART NO: AS568A-15  
SPECIFICATION: -  
MATERIAL: -  
FINISH: -  
ITEM NO: 1

SCALE 1/1

NMO Connector Option is Now Available for Some Antennas