



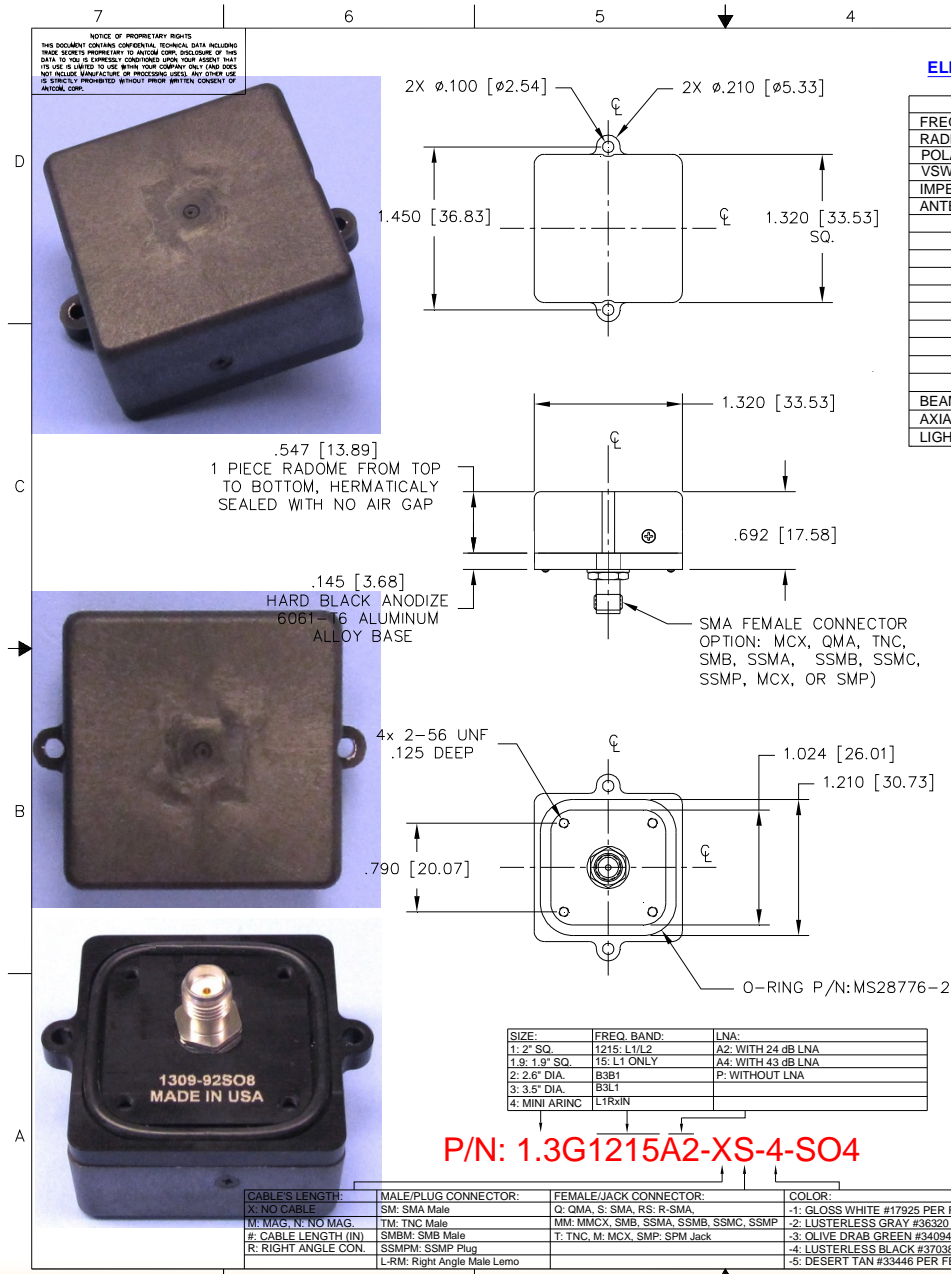
FAA Approved Facility

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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SPECIFICATIONS

ELECTRICAL:		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	
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:	< 2.0:1				
IMPEDANCE:	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: 1.3 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

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-SO4

CABLES 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 #37036 PER FED-STD-595B
			-5: DESERT TAN #33446 PER FED-STD-595B

1	0-RING	MS28776-25	-	-	-	1	
-2	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	THRU NO
QUANTITY REQD		PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES		ORIGINALLY DRAWN		S. HUYNH		Mar-11-05	
± 1/64 .005 ± .1°		ORIGINALLY DESIGNED		S. HUYNH		Mar-11-05	
TOLERANCE SHV PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILED & .005 TO .015 SQUARE INCREASE PER MIL-S-8879 DIMS OF A COMMON & .005 ± .005 MACHINED SURFACES 12°		UPDATED		S. HUYNH		Jan-08-12	
DO NOT SCALE DRAWING		UPDATE DRAWN		P. TRAN		Jan-08-12	
		APPROVED		S. HUYNH		Jan-08-12	
		DRAWN		D. 3CVE1		1.3G1215A2-XS-4-SO4	
		SCALE		1/1		SHEET 1 OF 1	

NMO Connector Option is Now Available for Some Antennas