



FAA Approved Facility

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

P/N: 1.3G1215A2-XS-4-SO7 (L1/L2), P/N: 1.3G15A2-XS-4-SO7 (L1)

L1/Inmarsat/Iridium: P/N: 1.3GL1RxINA2-XS-4-SO7 (Active Rx only), P/N: 1.3GL1RxINP-XS-4-SO7 (Passive Tx/Rx)

Other Frequency Bands are also Available

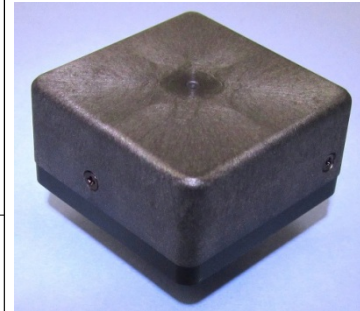
Back Mount, Bottom Connector Configuration with O-Ring

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



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEING THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING OF ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.



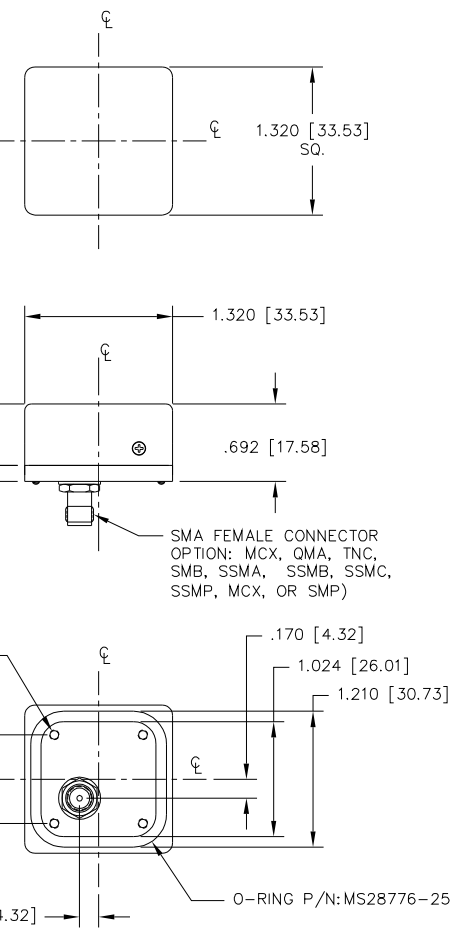
.547 [13.89]
1 PIECE RADOME FROM TOP TO BOTTOM, HERMETICALLY SEALED WITH NO AIR GAP

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



1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:



P/N: 1.3G1215A2-XS-4-SO7

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

SPECIFICATIONS

ELECTRICAL:	REVISIONS				
	ZONE	REV	DESCRIPTION	DATE	APPROVED
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		< 2.0:1		
IMPEDANCE:	50 ohms		50 ohms		
ANTENNA GAIN (dBi):	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
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: .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: > 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

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	O-RING	MS28776-25	-	-	-	1
-2	-1					
QUANTITY REC'D						
PARTS LIST						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .002 .015 .0005 ± 1°						
TOLERANCE SW PER ANS Y14.5						
BREAK EXTERNAL EDGES .005 TO .015 PER FED-STD-595B						
SCREEN THREADS PER MIL-C-8879						
MACHINED SURFACES 1/2						
DO NOT SCALE DRAWING						
ORIGINAL DRAWN: S. HUYNH		DATE: Mar-11-05		ANTCOM CORP. TORRANCE, CALIFORNIA		
ORIGINAL DESIGNED: S. HUYNH		DATE: Mar-11-05		HERMETICALLY SEALED ACTIVE L1/L2 GPS/GLONASS ANTENNA		
UPDATED: S. HUYNH		DATE: Mar-07-13		DRAWN TO: 3CVE1		
UPDATE DRAWN: P. TRAN		DATE: Mar-07-13		PART NO: 1.3G1215A2-XS-4-SO7		
APPROVED: S. HUYNH		DATE: Mar-07-13		SCALE: 1/1		
				SHEET 1 OF 1		

NMO Connector Option is Now Available for Some Antennas