



FAA Approved Facility

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

P/N: 1.3G1215A2-4.5MM-4-SO5 (L1/L2), P/N: 1.3G15A2-4.5MM-4-SO5 (L1)

L1/Inmarsat/Iridium: P/N: 1.3GL1RxINA2-4.5MM-4-SO5 (Active Rx only), P/N: 1.3GL1RxINP-4.5MM-4-SO5 (Passive Tx/Rx)

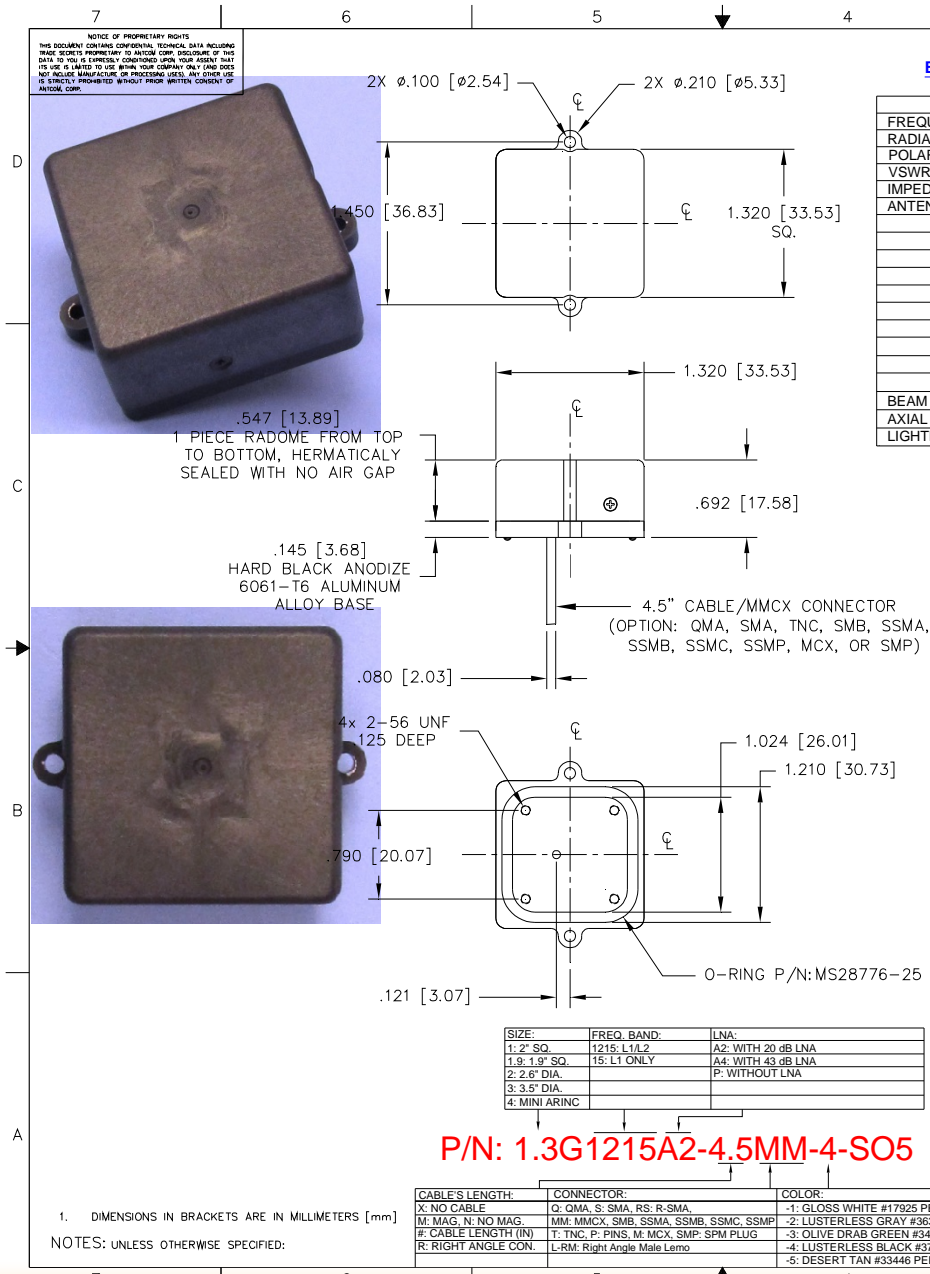
Other Frequency Bands are also Available

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

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



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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.	3 in G.P.
@ 90 ° (ZENITH):	+ 0.4	+ 3.2	- 2.2
@ 10 ° Elevation:	- 4.6	- 4.1	- 10.6
@ 15 ° Elevation:	- 4.5	- 3.8	- 8.5
@ 20 ° Elevation:	- 4.5	- 3.5	- 6.3
@ 30 ° Elevation:	- 3.3	- 1.8	- 4.0
@ 40 ° Elevation:	- 2.5	- 0.6	- 3.3
@ 50 ° Elevation:	- 2.0	+ 0.5	- 3.3
@ 60 ° Elevation:	- 1.5	+ 1.5	- 3.3
@ 70 ° Elevation:	- 0.7	+ 2.4	- 3.2
@ 80 ° Elevation:	+ 0.1	+ 3.0	- 3.2
BEAM WIDTH (3dB):	100 Deg.	80 Deg.	100 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 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: 1.3 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: 4.5" FLEXIBLE CABLE WITH MMCX CONNECTOR (OPTION: QMA, SMA, 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

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA
1.9-1.9" SQ.	15: L1 ONLY	A4: WITH 43 dB LNA
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINI ARINC		

P/N: 1.3G1215A2-4.5MM-4-SO5

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	O: 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

NOTES: UNLESS OTHERWISE SPECIFIED:

1	0-RING	MS28776-25	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANTCOM CORP. TORRANCE, CALIFORNIA	
FRACTIONS: 1/16, 1/8, 1/4, 3/16, 1/2, 5/8, 3/4, 7/8	DECIMALS: .005, .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100	ANGLES: 15°, 30°, 45°, 60°, 90°, 120°, 135°, 150°, 180°	DATE: Mar-11-05
TOLERANCE ±M PER ANSI Y14.5	ORIGINAL DRAWN: S. HUYNH	ORIGINAL DESIGNED: S. HUYNH	DATE: Mar-11-05
MINIMUM ALL SIDES: .005	ORIGINAL DESIGNED: S. HUYNH	ORIGINAL DESIGNED: S. HUYNH	DATE: Mar-11-05
BREWER: .005	ORIGINAL DESIGNED: S. HUYNH	ORIGINAL DESIGNED: S. HUYNH	DATE: Mar-11-05
SHAW: .005	ORIGINAL DESIGNED: S. HUYNH	ORIGINAL DESIGNED: S. HUYNH	DATE: Mar-11-05
DO NOT SCALE DRAWING	ORIGINAL DESIGNED: S. HUYNH	ORIGINAL DESIGNED: S. HUYNH	DATE: Mar-11-05

ANTCOM CORP. TORRANCE, CALIFORNIA	
HERMETICALLY SEALED ACTIVE L1/L2 GPS/GLONASS ANTENNA	DATE: Jan-08-12
SCALE 1/1	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas