



FAA Approved Facility

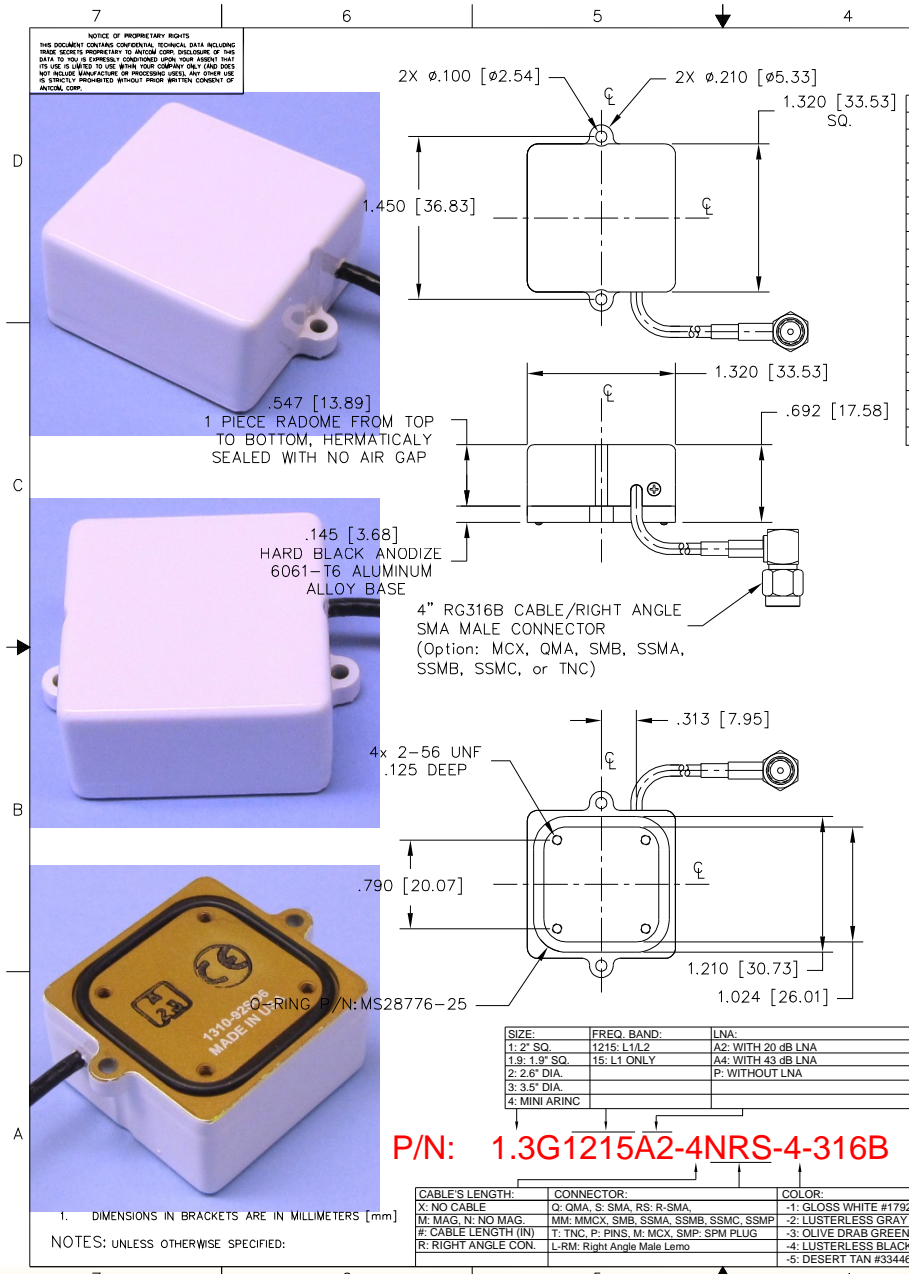
Hermetically Sealed, Ruggedized and High Vibration/Shock Resistant Active GPS/Glonass Antenna
 L1/L2 GPS/Glonass P/N: 1.3G1215A2-4NRS-4-316B (Active, 4" RG316B Cable/Right Angle SMA Male)
 L1/L2 GPS/Glonass P/N: 1.3G1215P-4NRS-4-316B (Passive, 4" RG316B Cable/Right Angle SMA Male)

Other Frequency Bands are also Available
Back Mount, Bottom Cable 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>



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 ° Elevation:		+ 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 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" RG316B CABLE/ RIGHT ANGLE SMA MALE (OPTION: MCX, QMA, SMB, SSMA, SSMB, SSMC, OR TNC)

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:

1	2	3	4	5	6	7
QTY	REV	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH
1	-	O-RING	MS28776-25	-	-	-
-2	-1					
PARTS LIST						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES						
FRACTIONS TO DECIMALS: ANGLES ± 1/64 .xxx .015 ± .01						
TOLERANCE .5W PER ANS Y14.5						
REMOVE ALL BURRS						
BREAK EXTERNAL EDGES .005 TO .015						
SIZE W/ TOLERANCES PER MIL-C-8879						
DIMS ON A COMMON 1:20.000						
MACHINED SURFACES: 12.5						
DO NOT SCALE DRAWING						
ORIGINAL DRAWN		S. HUYNH		Mar-11-05		
ORIGINAL DESIGNED		S. HUYNH		Mar-11-05		
UPDATED		S. HUYNH		Mar-25-13		
UPDATE DRAWN		P. TRAN		Mar-25-13		
APPROVED		S. HUYNH		Mar-25-13		
DRAWN		S. HUYNH		Mar-25-13		
CHECKED		S. HUYNH		Mar-25-13		
SCALE 1/1		1.3G1215A2-XNRS-4-316B		SHEET 1 OF 1		

P/N: 1.3G1215A2-4NRS-4-316B

NMO Connector Option is Now Available for Some Antennas