



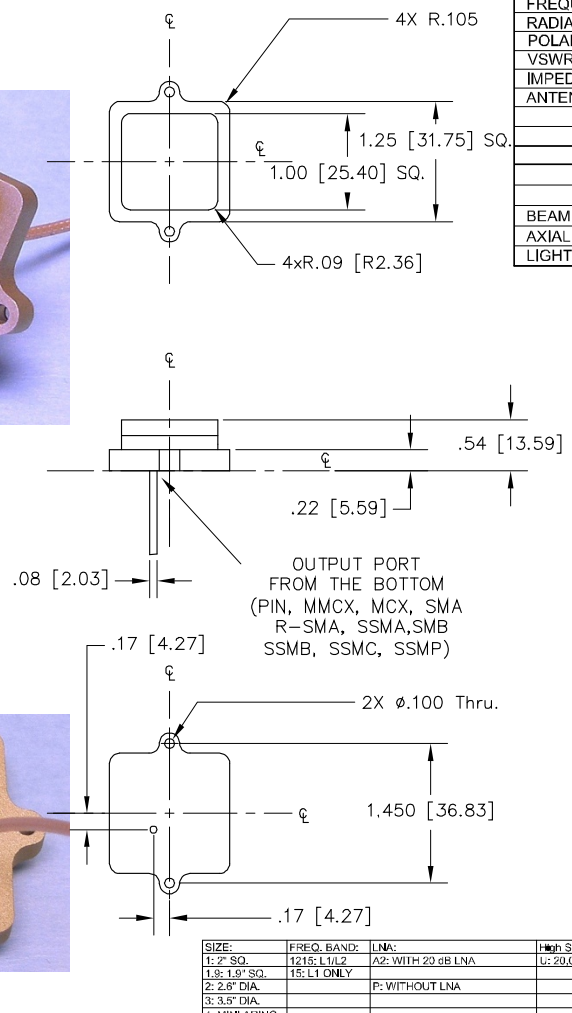
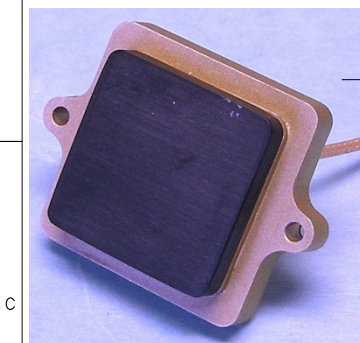
ISO 9001:2008/FAA Approved Facility

Active B3/Omnistar/L1 GPS/Glonass Antenna, P/N: 0.9G16A3-6RM-4 1.2" Square, Front Mount, Back Cable Configurations



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1561.09 ± 10) MHz	(1575.42 ± 12) MHz	(1609 ± 7.0) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 2:1					
IMPEDANCE:	50 ohms					
ANTENNA GAIN (dBiC):	Free Space	3 in G.P.	Free Space	3 in G.P.	Free Space	3 in G.P.
@ 90 ° (ZENITH):	- 1.5	+ 3.1	- 0.8	+ 3.8	- 1.5	+ 3.1
@ 10 ° Elevation:	- 10	- 5.0	- 9.3	- 4.3	- 10	- 5.0
@ 20 ° Elevation:	- 7.3	- 2.9	- 6.8	- 2.2	- 7.3	- 2.9
@ 30 ° Elevation:	- 5.9	- 1.4	- 5.2	- 0.7	- 5.9	- 1.4
@ 60 - 90 ° Elevation:	> - 2.8	> 1.8	> - 2.1	> 2.5	> - 2.8	> 1.8
BEAM WIDTH (3dB):	100 Deg.	120 Deg.	100 Deg.	120 Deg.	100 Deg.	120 Deg.
AXIAL RATIO:	2.5 dB					
LIGHTNING PROTECTION:	DC GROUNDING					

LNA OPTION:

LNA GAIN: 27.0 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
 FILTER: 2-POLE FITLER (P/N: KFF6338A)

MECHANICAL:

SIZE: 1.250 in.[31.75 mm] SQ.
 HEIGHT: 0.540 in.[13.59 mm]
 WEIGHT: 1.05 oz. (30 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, ABRASION, UV, SOLVENT,
 SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: 6" LONG FLEXIBLE CABLE with RIGHT ANGLE MCX
 (OPTION: MCX, SMA, 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: ATP-GPS-L1L2-100

ZONE	REV	DESCRIPTION	DATE	APPROVED

SIZE:	FREQ. BAND:	LNA:	High Shock/Microwave Options:
1: 2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA	L: 20,000G
1.8: 1.9" SQ.	15: L1 ONLY	P: WITHOUT LNA	
2: 2.8" DIA.			
3: 3.5" DIA.			
4: MINI ARINC			

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO
1	Conductive ADHESIVE GASKET	123450-3M-0.90		5
1				3
1				2
1				1

P/N: 0.9G16A2-6RM-4

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

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; RS: R-SMA; P: PINS; M: MCX;	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N. NO MAG.	MM: MMCX; SMB; SSMA; SSMB, SSMC;	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	SSMP, T, TB, TNC, RV; RIGHT ANGLE MCX	-3: OIL F. DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	L-RM: Right Angle Male Lemo	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE 16ths ANGLES ± 1/64 DECIMALS ± .015 ± .005 ± .010 ± .005 MACHINED SURFACES V DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Active B1/Omnistar/L1 GPS/GLONASS ANTENNA

DATE: July-01-09

SCALE: 1/1

SHEET 1 OF 1