

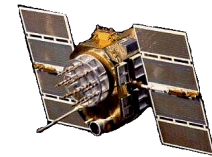


ISO 9001:2008/FAA Approved Facility

L1/L2 GPS Antennas, P/N: 1.9G1215A-5C50-2-2-AAI

2.0" Square, Flat Mount Configurations

With Huber Suhner 11_1023-C50-2-2/111_NE Connector and Huber Suhner Double Shielded EF316D Cable



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

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CONDUCTIVE IRIDITE PER MIL-C-5411F ON ALL SURFACES (NO PAINT)

2.000 [50.80] SQ.

1.912 [48.56] SQ.

4x ϕ .113 [ϕ 2.87] Thru. for 4-40 Mounting Screws, 0.138" Thick

4xR.250 [R6.35]

4xR.716 [R18.19]

.533 [13.54]

.293 [7.44]

HUBER SUHNER EF316D DOUBLE SHIELDED CABLE

CONDUCTIVE IRIDITE PER MIL-C-5411F ON ALL SURFACES (NO PAINT)

1.658 [42.10]

5" CABLE/HUBER SUHNER CONNECTOR
P/N: 11_1023-C50-2-2/111_NE
(OPTIONAL: SMA, SMB, MCX, MMCX, SSMA, SSMB, SSMC, SSMP, TNC, OR N)

8-32 Thread x 0.171" Deep for Magnet Mounting Option

Optional Mounting: ADHESIVE GASKET

SIZE: 2" SQ. FREQ. BAND: L1/L2 LNA: A1: WITH 33 dB LNA
1.9-1.9" SQ. 15: L1 ONLY A2: WITH 20 dB LNA
2: 2.6" DIA. A4: WITH 40 dB LNA
3: 3.5" DIA. P: WITHOUT LNA
4: MINI ARINC

ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 \pm 12) MHz			L2: (1227.60 \pm 12) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL			HEMISPHERICAL		
POLARIZATION:	RHCP			RHCP		
VSWR:	< 1.5:1			< 1.5:1		
IMPEDANCE:	50 ohms			50 ohms		
ANTENNA GAIN (dBi):	Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90° (ZENITH):	+3.7	+4.7	+3.1	-1.7	+3.3	+4.5
@ 10° Elevation:	-2.9	-1.8	-1.9	-7.3	-3.8	-3.5
@ 20° Elevation:	-1.3	-0.3	+0.6	-6.2	-2.0	-0.8
@ 30° Elevation:	0.0	+1.4	+1.7	-5.2	-0.5	+1.4
@ 60-90° Elevation:	> 3.0	> 3.9	> 2.4	> -3.2	> 2.7	> 2.2
BEAM WIDTH (3dB):	108 Deg.	114 Deg.	143 Deg.	100 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB			2 dB		
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	33 dB			35 dB		
LNA NOISE FIGURE:	3.0 dB			3.0 dB		
LNA P1dB Out:	+13 dBm			+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA					
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB			-40 dB / -40 dB		
@ (-100/+100) MHz	< -65 dB			< -65 dB		
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:

SIZE: LENGTH = 2.00 in. [50.80 mm], WIDTH = 2.00 in. [50.58 mm]
HEIGHT = 0.533in. [13.54mm]

WEIGHT: 2.88 oz. (82 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: 5" CABLE/HUBER SUHNER 11_1023-C50-2-2/111_NE
(OPTION: SMB, SMC, SSMA, SSMA, SSMC, SSMP, MCX, MMCX, TNC, OR N)

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

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO.
1	ADHESIVE GASKET	123456-3M-1G	-	-	-	3
1						2
1						1
-2						-

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACIONS: DECIMALS: ANGLES: 1/64 .005 .005 \pm 1°

TOLERANCE SWM PER ANSI Y14.6

REMOVE ALL BURRS BREAK EXTERIOR EDGES .005 TO .010 FILE TO .005 TO .010 SMOOTH ENDS PER MIL-DIA'S ON A COMMON & .005 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

2" SQ. ACTIVE L1/L2 GPS ANTENNA WITH CABLE

1.9G1215A-5C50-2-2-AAI

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas