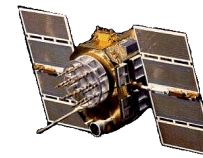




ISO 9001:2008/FAA Approved Facility

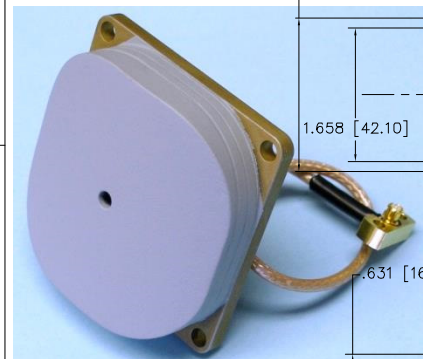

L1/L2 GPS Antenna, P/N: 1.9G1215P-6.5RSMP-2-2.33

1.9" Square, 2.33in Conformal Radius, Flat Front/Back Mount with 6.5in R-SMP-Male Back Cable Configurations



ANTCOM CORPORATION . 367 Van Ness Way, #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 FORBIDDEN UNLESS YOU AGREE THAT ITS USE IS LIMITED TO USE WITH YOUR COMPANY ONLY AND DOES NOT INCLUDE REPRODUCTION OR PROCEEDING HEREON. ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

1.900 [48.26] SQ.
1.657 [42.09]
4xR.125 [R3.18]
4xR.710 [R18.03]
1.658 [42.10]
4x ø.147 [ø3.73] Thru.
0.631 [16.03] (Passive)
R2.330 [R59.18] ★
0.429 [10.88]
0.140 [3.56]
0.160 [4.06]
0.353 [8.97]
2x ø.102 [ø2.59] Thru.
0.148 [3.77]
0.255 [6.48]

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 40 dB LNA
2: 2.0" DIA. P: WITHOUT LNA
3: 3.5" DIA.
4: MINI ARINC

CONFORMAL RADIUS OPTION:
-3: 3.000" RADIUS (SDBII)
-3.5N: 3.500" RADIUS (NETFIRE, GMLRS, NLOS)
-4P: 4.000" RADIUS (PAVEWAY)
-6M: 6.000" RADIUS (PAVEWICK)
-7.5EM: 7.500" RADIUS (EGSU, MALD)
-14A: 14.00" RADIUS (ACM)
-X: X" RADIUS (Ø Flat, No RadRus)
-F: FLAT (WITHOUT RADOME)

CABLE'S LENGTH: **CONNECTOR:** **COLOR:**
X: NO CABLE S: SMA; RS: R-SMA; P: PINS -1: GLOSS WHITE #17925 PER FED-STD-595B
M: MMCX; MM: MMCX; SMB -2: LUSTERLESS GRAY #36320 PER FED-STD-595B
SSMA, SSMB, SSMD, SSMP -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
T: TB; TNC; TNC-Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

P/N: 1.9G1215P-6.5RSMP-2-2.33

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±12) MHz			L2: (1227.60 ±12) MHz		
FREQUENCY:						
RADIATION PATTERN:	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 OPTION:

LNA GAIN:	20 dB	20 dB
LNA NOISE FIGURE:	1.9 dB	1.8 dB
LNA P1dB Out:	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/10mA, 3V/10mA, 3.3V/12mA, (2.5-24)V/<20mA	
POWER HANDLING:	1 Watt CW, MORE WITH LIMITTER OPTION	

MECHANICAL:

SIZE: 1.900in [48.26mm] Square
HEIGHT: 0.631 in. [16.03 mm]
WEIGHT: 3.8 oz. (107g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: 6.5in RIGHT ANGLE SMP MALE CABLE (OPTION: SMB, SMC, SSMA, SSMA, SSMB, 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, DO-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	REV
						5
1						3
1						2
1						1
-2						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMAL ANGLES ± 1/64 ± .015 ± .1°

TOLERANCE SW PER ANS Y14.5
REMOVE ALL SQUARE
BREAK EXTERNAL EDGES .005 TO .015
DRAWS TO .005 TO .010
SCREW THREADS PER UN-3-8879
DAYS ON A CONICAL SURFACE
MACHINED SURFACE

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
Low Profile 1.9" SQ. Conformal L1/L2 GPS ANTENNA
D3CVE1 1.9G1215P-6.5RSMP-2-2.33
SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas