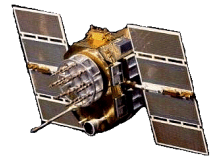




Active or Passive **L1/L2 GPS Antenna, P/N: 21G1215A-3SMP-3-DS** (-DS for Double Shielded Cable)

2.3" Square, Front Mount Configurations



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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SPECIFICATIONS

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP			
VSWR:	< 1.5:1		< 1.5:1			
IMPEDANCE:	50 ohms		50 ohms			
ANTENNA GAIN (dBic):	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, (2.5-24)V/<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: 2.290 In. [58.17 mm] X 2.290 In. [58.17 mm]
 HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 2.9 oz. (82 g)

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: 3 IN. CABLE / SMP FEMALE
 (OPTION: SMA, TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable)




ENVIRONMENTAL:

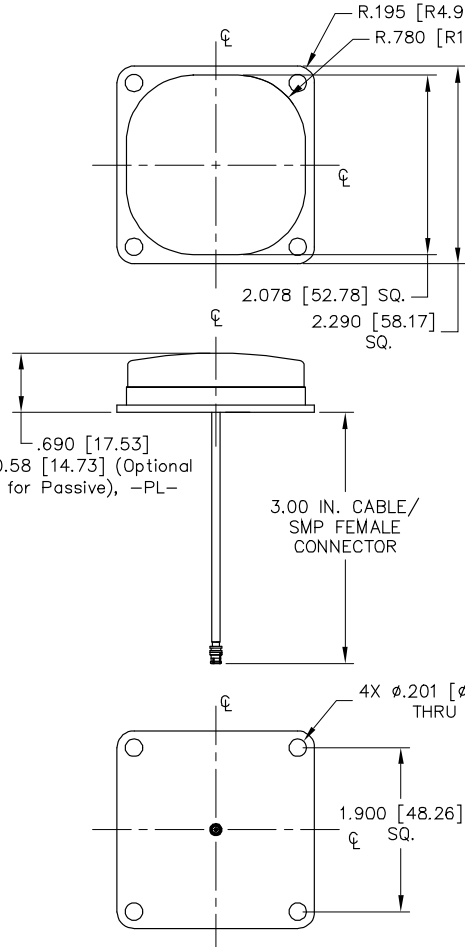
TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-L-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100



SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215, L1/L2	A: WITH LNA
1.8: 1.8" SQ.	1575 ONLY	A1: WITH LNA/LIMITER
2: 2.6" DIA.		A2: WITH 20 DB LNA WITHOUT REJECTION FILTER
3: 3.5" DIA.		A4: WITH 40 DB LNA WITHOUT REJECTION FILTER
4: MINI ARINC		F: WITHOUT LNA

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1	ADHESIVE GASKET, Item 544A	12345G-3W-1G	-	-	1

P/N: 21G1215A-3SMP-3-DS

CABLE'S LENGTH:	CONNECTOR:	COLOR:
#: CABLE LENGTH (IN)	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
X: NO CABLE	M: MCX; MM; MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
M: MAG. N: NO MAG.	N, NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33445 PER FED-STD-595B

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS TOLERANCES ANGLES	ORIGINALLY DRAWN S. HUYNH May-29-01	ANTCOM CORP. TORRANCE CALIFORNIA OUTLINE DRAWING L1/L2 ACTIVE or PASSIVE GPS ANTENNA D3CVE1 21G1215A-3SMP-3-DS-1
TOLERANCE 5M PER ANSI Y14.5 REMOVE ALL DIMS BREAK EXTERNAL EDGES .005 TO .010 SURF FINISH PER MIL-S-8879 25.3 ON A COLUMNS 2, 3, 4, 5 UNLESS OTHERWISE SPECIFIED	ORIGINALLY DESIGNED S. HUYNH Mar-17-14	
DATE	APPROVED S. HUYNH Mar-17-14	
SCALE 1/1	SHEET 1 OF 1	

NMO Connector Option is Now Available for Some Antennas