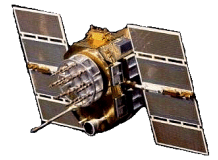




# Conformal L1 GPS FRPA Antenna Element

## Can be Used to Form Multiple Element CRPA

### 2.6" Diameter, P/N: 2CG15X-XS-2-X



ISO 9001:2008/FAA Approved Facility

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

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**SPECIFICATIONS**

ELECTRICAL:		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
FREQUENCY:		L1: (1575.42 ±12) MHz		
RADIATION PATTERN:		HEMISPHERICAL		
POLARIZATION:		RHCP		
VSWR:		< 1.5:1		
IMPEDANCE:		50 ohms		
ANTENNA GAIN (dBic):		Free Space	16 in G.P.	4 ft G.P.
@ 90° (ZENITH):		+ 5.0	+ 2.5	+ 3.6
@ 10° Elevation:		- 2.3	- 2.9	- 1.7
@ 20° Elevation:		- 0.9	- 0.5	+ 1.0
@ 30° Elevation:		+ 0.7	+ 1.6	+ 2.4
@ 60 - 90° Elevation:		> 4.2	+4.7/+25	> 3.6
BEAMWIDTH(3dB):		102 Deg	107 Deg	127 Deg
AXIAL RATIO:		2 dB		
LIGHTNING PROTECTION:		DC GROUNDING		
LNA GAIN:		33 dB		
LNA NOISE FIGURE:		2.4 dB		
LNA P1dB Out:		+13 dBm		
LNA DC POWER:		2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION@ (-50/+50)MHz:		-45 dB / -70 dB		
@ (-100/+100)MHz:		< -65 dB		

**MECHANICAL:**

SIZE: DIAMETER: 2.60 in. [66.04 mm]  
HEIGHT: 0.655 in. [16.63 mm], 0.460 in. [11.68 mm] (without Radome)

WEIGHT: 5.5 oz. (156 g)

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

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

CONNECTOR: SMA FEMALE  
(OPTION: TNC, N, TNC- & 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-I-45208A, MIL-STD-810, AND SAE J1455

**SIZE OPTION:** FREQ. BAND LNA OPTION CONFORMAL RADIUS OPTION:

1: 2" SQ.	1215: L1/L2	A: WITH LNA	-3: 3.000" RADIUS (SDBII)
1.9: 1.9" SQ.	15: L1 ONLY	AL: WITH LNA/LIMITER	-3.5N: 3.500" RADIUS (NET/FIRE GMLRS)
2: 2.6" DIA.		P: WITHOUT LNA	-4P: 4.000" RADIUS (PAVEWAY)
3: 3.5" DIA.			-6M: 6.000" RADIUS (MAVERICK)
4: MINI ARINC			-7.5E: 7.500" RADIUS (EGBU, MALD)
			-14A: 14.000" RADIUS (ACM)
			-X: X" RADIUS (0: Flat, No Radius)

**ADHESIVE GASKET**

QUANTITY	DESCRIPTION	PART NO.	SPECIFICATION	MATERIAL	FINISH	ITEM NO.
1	ADHESIVE GASKET	12345G-3M-2G				5
1						3
1						2
1						1

**ANTCOM CORP.** TORRANCE, CALIFORNIA

2.6" DIA.  
X" RADIUS CONFORMAL  
L1 GPS ANTENNA

DESIGNED BY: M. BOAS  
DEC-12-03

APPROVED BY: S. HUYNH  
DEC-12-03

SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
NOTES: UNLESS OTHERWISE SPECIFIED:

RADOME OPTION:	CONNECTOR OPTION:	COLOR OPTION:
R: WITH RADOME	S: SMA; RS: Right Angle SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
N: NO RADOME	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	T: TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

P/N: 2CG15A-XS-2-X