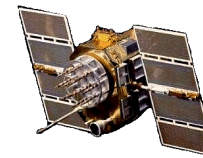




ISO 9001:2008/FAA Approved Facility

Active or Passive L1 GPS Antenna, P/N: 2G15X-XX-X

2.6" Diameter, Flat or Magnetic Mount Configuration



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SPECIFICATIONS

ELECTRICAL:

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/+2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN (OPTIONAL):	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: 1.0 in. [25.4 mm], 0.742 [18.85] for No Magnet Option

WEIGHT: 7.00 oz. [0.198 Kg], 4.00 oz. [0.113 Kg] (WITHOUT MAGNET)

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: SMA MALE WITH 36 IN CABLE
(OPTION: TNC, N, 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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION: 1: 2" SQ. (FLAT) 1.9: 1.9" SQ. (FLAT) 2: 2.6" DIA. (FLAT) 3: 3.5" DIA. (FLAT) 4: MINI ARINC (FLAT) 53: (HELIX ROD) 5B: (HELIX BLADE) 3D: (HELIX HANDHELD)	POLARIZATION: 15: L1 only 1215: L1/L2 1216: L1/L2/Inmarsat	LNA: A: WITH 33 dB LNA A2: WITH 20 dB LNA A4: WITH 40 dB LNA	CABLE'S LENGTH: XM: X IN CABLE WITH MAGNET XN: X IN CABLE WITHOUT MAGNET	MALE CONNECTORS: S: SMA, SMB, SMC SSMA, SSMB, SSMC R-SMA, R-SMB, R-SMC R-SSMA, R-SSMB, R-SSMC MCX, MMCX, R-MCX, R-MMCX TNC, N, R-N	COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B
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P/N: 2G15P-XX-X

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

ADHESIVE GASKET	12345G-3M-3G	-	-	5
				3
				1
QUANTITY REQD		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .005 ± 1°		ANTCOM CORP. TORRANCE CALIFORNIA 2.6" Dia. FLAT OR MAGNETIC MOUNT L1 GPS ANTENNA (with X in Cable)		
REMOVE ALL BURRS BREAK EXTERNAL EDGES 0.005 TO 0.015 FILE TO .005 TO 0.010 DIE & IMPROVE FOR #2-3-8879 DTS ON A COMMON #2-3-005 MACHINED SURFACES	DRWN	ENGR	APPV	CHK
DO NOT SCALE DRAWING	S. HUYNH DEC-13-02	D 3CVE1	2G15X-XX-X	1
SCALE 1/1	SHEET 1 OF 1			

NMO Connector Option is Now Available for Some Antennas