



### 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/+25    > 3.6
BEAM WIDTH (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
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

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 FEMALE 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, 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	DESCRIPTION	PART NO.	MATERIAL	FINISH	REV. NO.
1	ADHESIVE GASKET	12345G-3M-2G			3
1					2
-2	-1				1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ± 1/64	DECIMALS .005	ANGLES ± 1°
TOLERANCE SIM PER ANS Y14.5	REMOVE ALL BURRS	CHECKED M. BOAS 01-05-29
BREAK EXTERNAL EDGES .005 TO .015	FILED IN .005 TO R .005	DRAWN S. HUYNH 01-05-29
DATE OF THIS DRAWING 01-23-2006	DATE OF PREVIOUS EDITION 01-23-2006	APPROVED S. HUYNH 01-05-29
MACHINED SURFACES 125	DO NOT SCALE DRAWING	DATE FILED 01-05-29

**ANTCOM CORP.** TORRANCE, CALIFORNIA

2.6 in Dia. Flat or Mag. Mount ACTIVE or PASSIVE L1 GPS ANTENNA

REV: D | 3CVE1 | 2G15X-MX-X | SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas