

MECHANICAL DIMENSIONS:
 Diameter: $\phi 3.500$ [88.90]
 Height: $.698$ [17.73] without Radome, $.465$ [11.81] with Radome
 Phase Center: 4×1.344 [34.12]
 Element Spacing: 4×1.613 [15.57]
 Element Diameter: $4 \times \phi .20$ [$\phi 5.11$]
 Mounting Hole Diameter: $\phi .385$ [$\phi 9.78$] X 100°
 Nameplate Location: $\phi .965$ [$\phi 24.52$]
 Mounting Hole Diameter: $4 \times .209$ [5.30]

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ± 50) MHz	L2: (1227.60 ± 27) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms
ELEMENT ANTENNA GAIN (dBic):	3 in G.P.	3 in G.P.
@ 90° (ZENITH):	+ 3.8	+ 2.7
@ 10° Elevation:	- 4.3	- 6.3
@ 20° Elevation:	- 2.2	- 4.2
@ 30° Elevation:	- 0.7	- 2.4
@ 60 - 90° Elevation:	> 2.5	> 1.3
BEAM WIDTH (3dB):	120 Deg.	90 Deg.
HIGH POWER PROTECTION	OPTIONAL: WITH FILTER/LIMITER (INPUT: +50dBm, OUPUT: +30 dBm)	

LNA OPTION:

LNA GAIN: (22.0 +/- 2.0) dB
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +16 dBm
 VOLTAGE/CURRENT: (+2.5 TO +5) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: DIAMETER 3.50 in. [88.90 mm]
 HEIGHT .690 in. [17.53 mm], .465in without Radome.
 WEIGHT: 5.15 oz. (.146 Kg)
 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: RIGHT ANGLE SMA, MCX, MMCX)

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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"		MS24693C274	5
A/R				3
1	ADHESIVE GASKET		12345G-3M-3G	1

ANTCOM CORP. TORRANCE, CALIFORNIA

3.75" Dia.
 4 ELEMENT CRPA L1L2 GPS ANTENNA ARRAY

DATE: 10/15/13
 DRAWN BY: S. HUYNH
 CHECKED BY: M. DIEP
 APPROVED BY: S. HUYNH

SCALE: 1/1
 SHEET 1 OF 1

Antenna Mounts: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf
 Amplifiers/Power Divider/Combiner/Filters: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf