



ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED

	IRIDIUM	GPS
FREQUENCY:	(1610.0 - 1626.5) MHz	L1: (1575.42 ±13)
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	RHCP	RHCP
VSWR:	< 2.0:1	< 1.5:1
GAIN (dB):	4 ft G.P., Free Space	F.S., 4 ft G.P
@ 90° (Zenith):	+4.9	+5.0
@ 10° Elevation:	-1.0	-2.5
@ 20° Elevation:	+1.5	-0.5
@ 30° Elevation:	+2.4	+1.0
@ 60° to 90° Elevation:	>+3.3	>+2.7
BEAM WIDTH (3dB):	129°	96°-106°
AXIAL RATIO @ Zenith:	2 dB	2 dB
POWER HANDLING:	30 W	1 Watt
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING
FILTER (REJ. @1616 MHZ):		> 60 dB
LNA GAIN:	N/A	(33.0±/-1.0) dB
LNA P 1dB Out:	N/A	+16 dBm
LNA NOISE FIGURE:	N/A	2.8 dB (Filter loss is Included)
VOLTAGE/CURRENT:	N/A	(+2.8 TO +28) Volts DC / (30 TO 50) mA

MECHANICAL:

SIZE: 4.70 in. [119.4mm] X 3.00 in. [76.2 mm]
 HEIGHT: .898 in [22.80 mm]

WEIGHT: 11.6 oz. (328.8 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541F CLASS 3

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

CONNECTOR: (2X) RG316 CABLE/ TNC CONNECTOR
 (OPTION: SMA, QMA, MCX, MMCX, N)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 70,000 ft.

VIBRATION: > 30 G's
 HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

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

QUANTITY	DESCRIPTION	PART NO	FINISH	REV
4	Mounting Screw: 10-32, 2.0"	MS24693C284	-	3
1	O-Ring or Gasket	2-142/N756-75, Item 551t	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .010 ± 1°	ORIGINALLY DRAWN	S. HUYNH	Sept-24-15
TOLERANCE .5% PER ANSI Y14.5	ORIGINALLY DESIGNED <td>S. HUYNH <th>Sept-24-15</th> </td>	S. HUYNH <th>Sept-24-15</th>	Sept-24-15
BREAK EXTERNAL EDGES .005 TO .015	UPDATED <td>S. HUYNH <th>Dec-02-15</th> </td>	S. HUYNH <th>Dec-02-15</th>	Dec-02-15
SHAFT DIAMETER PER MIL-C-8879	UPDATE DRAWN <td>F. IRAN <th>Dec-02-15</th> </td>	F. IRAN <th>Dec-02-15</th>	Dec-02-15
DI'S ON A DRAWING ≤ 2' 000	APPROVED <td>S. HUYNH <th>Dec-02-15</th> </td>	S. HUYNH <th>Dec-02-15</th>	Dec-02-15
MACHINED SURFACES	DO NOT SCALE DRAWING		

ANTCOM CORP. TORRANCE, CALIFORNIA	
FLAT FIXED MOUNT ACTIVE L1 GPS/IRIDIUM ANTENNA	
REV	DESCRIPTION
D	3CVE1 42GL1IR-AP-XTT-X-X
SCALE	1/1
SHEET	1 OF 1

P/N: 42GL1IR-AP-XTT-X-X

NMO Connector is Now Available for Some Antennas