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**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		Correct Gain Table	April-02-10	S.H

**SPECIFICATIONS**

	Rx-Thuraya (LHCP), or Rx Inmarsat Omnistar, L6 Galileo, B1 Compass (RHCP)	L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP)	IRIDIUM, L1 GLONASS (RHCP) or Tx-Globalstar (LHCP)	Tx-Thuraya (LHCP) or Tx-Inmarsat (RHCP)
<b>FREQUENCY:</b>	(1542.5 ± 17.5) MHz	(1575 ± 17) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz
<b>RADIATION PATTERN:</b>	HEMISPHERICAL			
<b>VSWR:</b>	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
<b>IMPEDANCE:</b>	50 ohms	50 ohms	50 ohms	50 ohms
<b>ANTENNA GAIN (dBi):</b>	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):	+ 2.5	+ 1.6	+ 3.7	- 1.5
@ 10 ° Elevation:	- 4.7	- 2.4	- 3.5	- 3.5
@ 20 ° Elevation:	- 3.8	+ 0.7	- 2.6	- 0.9
@ 30 ° Elevation:	- 2.1	+ 2.3	- 0.9	+ 0.3
@ 60 - 90 ° Elevation:	> + 1.0	> + 2.1	> + 2.3	> 0
<b>BEAM WIDTH (3dB):</b>	90 Deg.	140 Deg.	85 Deg.	140 Deg.
<b>AXIAL RATIO:</b>	3 dB			
<b>LIGHTNING PROTECTION:</b>	DC GROUNDING			
<b>LNA OPTION:</b>	33 dB Gain			
<b>LNA NOISE FIGURE:</b>	3.0 dB			
<b>LNA P1dB Out:</b>	+13 dBm			
<b>LNA DC POWER:</b>	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA			
<b>REJECTION @ (-50/+50) MHz</b>	-40 dB / -40 dB			
<b>REJECTION @ (-100/+100) MHz</b>	< -65 dB			
<b>POWER HANDLING:</b>	100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)			

**ELECTRICAL:**

**MECHANICAL:**

SIZE: DIAMETER: 3.50 in. [ 88.9 mm ]  
HEIGHT: 0.888in. [22.56 mm]

WEIGHT: 10oz. (283g)

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: TNC FEMALE  
(OPTION: SMA, TNC Bulkhead, N, 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 SEALED

**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

**SIZE:** Frequency: 1516; (L1 GPS) & 1516; (Thuraya/Tx-Globalstar)  
1.9" - 1.9" SQ.  
2: 2.6" DIA.  
3: 3.5" DIA.  
4: MINI ARINC

**POLARIZATION:** RL: RHCP/LHCP  
R: RHCP/LHCP

**GPS LNA OPTION:** A: WITH LNA  
A: WITH LNA/LIMITER  
P: WITHOUT LNA

**SIZE:** 1: 2" SQ.  
1.9" - 1.9" SQ.  
2: 2.6" DIA.  
3: 3.5" DIA.  
4: MINI ARINC

**MOUNTING SCREWS:** 10-32, 1", Item 579

**GASKET:** 3G1SP1001-3G

**DESCRIPTION:** MONTING SCREWS: 10-32, 1", Item 579

**QUANTITY:** 4

**DESCRIPTION:** GASKET

**PARTS LIST:**

QTY	DESCRIPTION	PART NO	FINISH	REV
4	MONTING SCREWS: 10-32, 1", Item 579	J507C1032R16		5
1	GASKET	3G1SP1001-3G	-	1

**UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 .002 .005 ± 1°**

**TOLERANCE SYM PER ANSI Y14.5 REMOVE ALL SHARP BREAK EXTERNAL EDGES .005 TO .015 FOLETS & HOLES TO .005 SURF FINISHES PER MIL-S-8878 DIA'S OR & COPLAN & 25 .005 MACHINED SURFACES 25**

**DO NOT SCALE DRAWING**

**ANTCOM CORP.** TORRANCE, CALIFORNIA

3.5" Dia., Bottom Connector (Inmarsat/Iridium/GPS) & (Thuraya/Tx-Globalstar) Antenna

**DATE:** 05/05/10  
**DESIGNER:** S. HUYNH  
**DATE:** Feb-17-09  
**ORIGINALLY DESIGNED:** S. HUYNH  
**DATE:** Feb-17-09  
**UPDATER:** S. HUYNH  
**DATE:** April-02-14  
**ORIGINALLY DESIGNED:** P. IRAN  
**DATE:** April-02-14  
**APPROVED:** S. HUYNH  
**DATE:** April-02-14

**SCALE:** 1/1

**SHEET:** 1 OF 1

**NOTES:** UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

**CABLE'S LENGTH:** CONNECTOR: COLOR:

X: NO CABLE S: SMA; P: PINS -1: GLOSS WHITE #17925 PER FED-STD-595B  
M: MAG. N: No Mag. M: MCX; M: MMCX -2: LUSTERLESS GRAY #36320 PER FED-STD-595B  
R: CABLE LENGTH (IN) N: N; NB: N Bulkhead -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B  
R: RIGHT ANGLE CON. T: TNC; TB: TNC-Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

**P/N: 3GNSS1616RL-PP-XTT-3**

NMO Connector is Now Available for Some Antennas