



FAA Approved Facility

Active L1L2-GPS / Rx-Thuraya / (Rx-Inmarsat/Iridium) / Rx-Globalstar

P/N: 3GL1L2RxTIRRxG-AAAA-XSSSS-1 (for L1/L2)

P/N: 3GL1RxTIRRxG-AAAA-XSSSS-1 (for L1)

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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Phase Center:
1.226 [31.14] SQ.

Phase Center:
.601 [15.27]

Phase Center:
1.344 [34.12]

4x ϕ .201 [ϕ 5.11]
 ϕ .385 [ϕ 9.78] x 100"

0.25" [6.37] (MCX/MMCX)
0.46" [11.68] (SMA/R-SMA)

0.639 [16.22]
.834 [21.18]

0.209 [5.30]

0.209 [5.30]

4x SMA FEMALE CONNECTORS
(OPTION: RIGHT ANGLE SMA, MCX, MMCX)

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1 (1575.42 ± 50) MHz	L2 (1227.60 ± 27) MHz	Rx-Thuraya (1542.5 ± 17.5) MHz	Rx-INMARSAT/IRIDIUM (1625-1559)(1609-1626) MHz	Rx-Globalstar (2484-2499) MHz
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP	RHCP	LHCP	RHCP	LHCP
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):	3 in G.P.				
@ 90° (ZENITH):	+ 3.8	+ 2.7			
@ 10° Elevation:	- 4.3	- 6.3			
@ 20° Elevation:	- 2.2	- 4.2	TBD	TBD	TBD
@ 30° Elevation:	- 0.7	- 2.4			
@ 60 - 90° Elevation:	> 2.5	> 1.3			
BEAM WIDTH (3dB):	120 Deg.	90 Deg.			
AXIAL RATIO:	2.5 dB				
LIGHTNING PROTECTION:	DC GROUNDING				
LNA GAIN:	30 dB				
LNA NOISE FIGURE:	1.8 dB				
LNA P1dB Out:	+13 dBm				
VOLTAGE/CURRENT:	(2.5 TO 24)V <50 mA				

MECHANICAL:

SIZE: DIAMETER 3.50 In. [88.90 mm]
HEIGHT 0.834 in. [21.18 mm]

WEIGHT: 8.20 oz. (.232 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, 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-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	TEST NO
4	MOUNTING SCREWS: 10-32, 3/4"		MS24693C274	2
1	ADHESIVE GASKET		12345G-3M-3G	1

CONFORMAL RADIUS OPTION:

-3: 3.000" RADIUS (SDBI)	-7: 6.000" RADIUS (MAVERICK)
-3.5N: 3.500" RADIUS (NETFIRE, GMLRS, NLOS)	-7.5EM: 7.500" RADIUS (EGSU, MALD)
-4P: 4.000" RADIUS (PAVEWAY)	-14A: 14.000" RADIUS (ACM)
-6M: 6.000" RADIUS (MAVERICK)	-X: X" RADIUS (C: Flat, No Radius)
-4: 4.000" RADIUS (PAVEWAY)	-F: FLAT (WITHOUT RADOME)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS AND DECIMALS: ANGLES: ± 1/64 ± 1'

TOLERANCE SURF PER ANSI Y14.5: ALL SURF UNLESS OTHERWISE SPECIFIED: BREAK EXTERNAL EDGES .005 TO .015: BREAK INTERNAL EDGES .002 TO .010: SREW THREADS PER MIL-STD-2087A: DIMS ON A COMMON & 27-0005: MACHINED SURFACES: DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia., 4 ELEMENT CRPA ACTIVE
L1L2-GPS/Rx-Thuraya/(Rx-Inmarsat/IRIDIUM) & Rx-Globalstar ANTENNA ARRAY

REV: 3CVE1
SCALE: 1/1
SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas