



FAA Approved Facility

Active L1L2 GPS & Passive Iridium Antenna

P/N: 2GL1L2RXTXIR-AP-XTT-1-TR

Other Frequencies, Connector and Color Options are Available

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



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SPECIFICATIONS

	IRIDIUM			L1			L2		
	(1610.1 - 1628.5) MHz			(1575.42 ±12) MHz			(1227.60 ±12) MHz		
FREQUENCY:	HEMISPHERICAL			HEMISPHERICAL			HEMISPHERICAL		
RADIATION PATTERN:	RHCP			RHCP			RHCP		
VSWR:	< 2.0:1			< 1.5:1			< 1.5:1		
IMPEDANCE:	50 ohms			50 ohms			50 ohms		
ANTENNA GAIN (dBic):	Free Space	3 in G.P.	Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.	
@ 90 ° (ZENITH):	-0.8	+3.8	+5.0	+4.7	+3.1	+0.7	+3.3	+4.5	
@ 10 ° Elevation:	-9.3	-4.3	-2.1	-1.8	-1.9	-5.8	-3.8	-3.5	
@ 20 ° Elevation:	-6.8	-2.2	-0.6	-0.3	+0.6	-4.3	-2.0	-0.8	
@ 30 ° Elevation:	-5.2	-0.7	+0.9	+1.4	+1.7	-3.4	-0.5	+1.4	
@ 60 - 90 ° Elevation:	> -2.1	> 2.5	> 4.0	> 3.9	> 2.4	> -0.9	> 2.7	> 2.2	
BEAM WIDTH (3dB):	100 Deg.	120 Deg.	103 Deg.	114 Deg.	143 Deg.	94 Deg.	106 Deg.	74 Deg.	
AXIAL RATIO:	2 dB			2 dB			2 dB		
LIGHTNING PROTECTION:	DC GROUNDING			DC GROUNDING					
LNA GAIN:	N/A			33 dB			35 dB		
LNA NOISE FIGURE:	N/A			3.0 dB			3.0 dB		
LNA P1dB Out:	N/A			+13 dBm			+13 dBm		
LNA DC POWER:	N/A			2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA					
REJECTION @ (-50/+50) MHz	N/A			-41 dB / -59 dB			-40 dB / -40 dB		
@ (-100/+100) MHz	N/A			< -65 dB			< -65 dB		
POWER HANDLING:	30 W			1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:

SIZE: DIAMETER 2.630 in. [66.80 mm]
HEIGHT 1.828 in. [46.43 mm]

WEIGHT: 6.0 oz. (170 g)

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

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: TNC FEMALE
(OPTION: SMA, SMB, SSMA, SSMB SSMC, SSMP, MCX, MMCX OR SMP)

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]

ALTITUDE: 70,000 ft.

VIBRATION: 10 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

P/N: 2GL1L2RXTXIR-AP-XTT-1-TR

FREQ. BAND:	LNA:	CONNECTOR:	COLOR:
L1: (1575.42 ±12) MHz	A: WITH LNA	S: SMA; C: OMA; SMB; SMBR; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
L2: (1227.60 ±12) MHz	P: WITHOUT LNA	M: MCX; MM; MMCX; MMR; MMCX-R	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
IR: (1610.1 - 1628.5) MHz	A4: WITH LNA (40 dB)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		SVC, SSMC, SSMB, SSMA	-5: DESERT TAIN #33446 PER FED-STD-595B

1	2	3	4	5	6	7
1	O-RING	MS28775-024	-	-	-	2
-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TEST NO
PARTS LIST						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCE SURF PER ANSI Y14.6 REMOVE ALL BURRS BREAK EDGES .005 TO .015 FILED THROUGH PER MIL-S-8878 SURF IN A COLUMN & 25° MAX MACHINED SURFACES 125° DO NOT SCALE DRAWING						
ORIGINALLY DRAWN	S. HUYNH	May-17-01	TORRANCE CALIFORNIA			
ORIGINALLY DESIGNED	S. HUYNH	May-17-01	ACTIVE L1L2 GPS + PASSIVE IRIDIUM ANTENNA			
UPDATED	S. HUYNH	Jan-14-13	D 3CVE1			
UPDATE DRAWN	P. TRAN	Jan-14-13	2GL1L2RXTXIR-AP-XTT-1-TR			
APPROVED	S. HUYNH	Jan-14-13	SCALE 1/1			
						SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas