



FAA Approved Facility

# (1.49-1.52 GHz) L-Band Antenna

P/N: 2.3G1.49-1.52LL-P-XM-4

Other Frequencies, Polarizations, Connector, Color and Mounting Foot Prints Are Available



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Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available

NMO Connector Option is Now Available for Some Antennas

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**SIZE:** 1: 2" SQ. 1.9: 1.9" SQ. 2.3: 2.3" SQ. 2: 2.6" DIA. 3: 3.5" DIA.

**FREQUENCY:** 0.90-0.93: (0.902-0.928) GHz 0.81-0.96: (0.810-0.960) GHz 0.96-0.99: (0.968-0.988) GHz 1.49-1.52: (1.49-1.52) GHz X,XX-X,XX (GHz):

**LNA:** A2: WITH 20 dB LNA A4: WITH 40 dB LNA P: WITHOUT LNA P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION

**CABLE'S LENGTH:** X: NO CABLE M: MAG, N: NO MAG, R: CABLE LENGTH (IN) R: RIGHT ANGLE CON.

**CONNECTOR:** S: SMA; P: P2: PINS M: MCX; MM: MMCX N, NB: R: R-SMA T, TB: TNC, TNC-Bulkhead

**COLOR:** -1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: TAN #33446 PER FED-STD-595B

**1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]**  
**NOTES: UNLESS OTHERWISE SPECIFIED:**

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	(1.49-1.52) GHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	LHCP		
VSWR:	< 1.5:1		
GAIN (dB):	2 ft G.P.	4 ft G.P.	Free Space
@ 90° (Zenith):	+5.7	+2.9	+5.2
@ 10° Elevation (Ave):	-3.1	-2.2	-1.4
@ 20° Elevation (Ave):	+0.7	+0.6	-0.8
@ 30° Elevation (Ave):	+1.3	+1.8	-0.4
@ 45° Elevation (Ave):	+3.5	+2.4	+1.3
@ 70° Elevation (Ave):	+3.2	+3.2	+4.3
BEAM WIDTH (3dB):	110 °	128 °	80 °
AXIAL RATIO @ Zenith:	2.0 dB		
IMPEDANCE:	50 Ohms		
POWER HANDLING:	200 Watt		
DC GROUNDING:	YES (LIGHTNING PROTECTION)		

**MECHANICAL:**

SIZE: 2.306 in. [58.56 mm] SQ.  
HEIGHT: 0.368 in. [9.35 mm]

WEIGHT: 2.4 oz. (68 g)

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

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

CONNECTOR: MCX FEMALE  
(OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, SMP, BNC, 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:**

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

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QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	REF ID
-	-	-	-	-	2
-	-	-	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO BE USED AT ANGLES ± 1/64 DECIMALS TO ± .010 TOLERANCE 51W PER ANSI Y14.5 BREAK EXTERNAL EDGES .005 TO .010 SQUARE THREADS PER UNF-3-807B DIA'S ON A COARSE & 2X .0005 MACHINED SURFACES V DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE, CALIFORNIA

(1.49-1.52) GHz  
L-BAND ANTENNA

DATE: 10/13/2016  
SCALE: 1/1

SHEET 1 OF 1