



(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

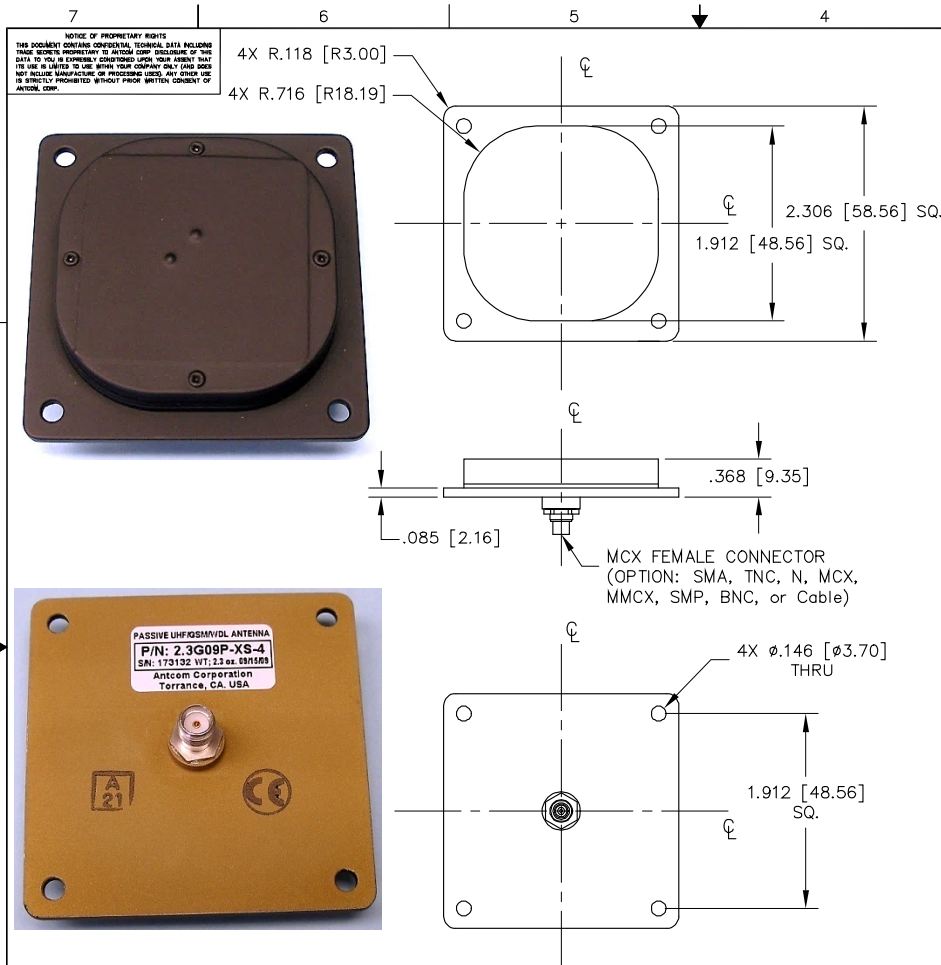


ISO 9001:2008/FAA Approved

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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

NMO Connector Option is Now Available for Some Antennas



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, DO-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:	LNA:
1: 2" SQ.	0.90-0.93; (0.902-0.928) GHz	A2: WITH 20 dB LNA
1.9: 1.9" SQ.	0.81-0.96; (0.810-0.960) GHz	A4: WITH 40 dB LNA
2.3: 2.3" SQ.	0.96-0.99; (0.968-0.988) GHz	P: WITHOUT LNA
2: 2.6" DIA.	1.49-1.52; (1.49-1.52) GHz	P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION
3: 3.5" DIA.	X.XX-X.XX (GHz);	P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION

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CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: P2; PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG; N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	N: NB; R: R-SMA	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-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:

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	REV
-	-	-	-	2
-	-	-	-	1
-	-	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO BE IN 16ths UNLESS NOTED OTHERWISE ± 1/64 DECIMALS ± .010 ANGLES ± .005 ± .010	TOLERANCE 5/16 PER ANSI Y14.5 BREAK EXTERNAL EDGES .005 TO .010 SQUARE HEADS PER MIL-C-8878 DIA'S ON A CORNER ± .0005 MACHINED SURFACES ± .005 DO NOT SCALE DRAWING	ORIGINAL DRAWN S. HUYNH July-24-14 ORIGINAL REVISION S. HUYNH July-24-14 UPDATED S. HUYNH Oct-13-16 UPDATE DRAWN P. TRAN Oct-13-16 APPROVED S. HUYNH Oct-13-16	ANTCOM CORP. TORRANCE, CALIFORNIA (1.49-1.52) GHz L-BAND ANTENNA D 3CVE1 2.3G1.49-1.52LL-P-XM-4 SCALE 1/1 SHEET 1 OF 1
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