

(2.4-2.5) GHz LHCP Antennas, P/N: 3G24LL-P-XT-1  
 (2.4-2.5) GHz RHCP Antennas, P/N: 3G24RR-P-XT-1  
 3.5" Diameter Configurations with Front/Back Mounting Option

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

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2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION  
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

Specifications:  
 Diameter:  $\phi 3.500$  [88.90]  
 Height:  $.950$  [24.13]  
 Total Height:  $1.900$  [48.26]  
 Mounting Holes:  $4 \times \phi .201$  [ $\phi 5.11$ ]  
 Spherical Radius:  $R6.000$  [R152.40]  
 Max. Dim:  $0.25''$  [6.37] (MCX/MMCX),  $0.46''$  [11.68] (SMA/R-SMA),  $0.57''$  [14.53] (TNC),  $0.83''$  [21.00] (TNC-BH),  $0.72''$  [18.29] (N, N-BH)  
 Connector: NAMEPLATE APPROXIMATE LOCATION, TNC FEMALE CONNECTOR (OPTION: SMA, TNC Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable)  
 Connector Hole:  $.143$  [3.63]  
 Mounting Hole:  $.102$  [2.59]

**P/N: 3G24LL-P-XT-1**

SIZE:	FREQ. BAND:	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1625: Tx/Rx	LL: TX: LHCP, RX: LHCP	A1: WITH +23 dB LNA	
1.9: 1.9" SQ.	25: 2493 MHz	LR: TX: LHCP, RX: RHCP	A2: WITH +43 dB LNA	
2: 2.6" DIA.	16: 1616 MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	
3: 3.5" DIA.	24, or 802.11	RR: TX: RHCP, RX: RHCP		
4: MINI ARINC	(2.4-2.5) GHz			

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC: Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	(2400 - 2500) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	LHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.6 +6.1
@ 10° Elevation (Ave):	-1.1 -2.4
@ 20° Elevation (Ave):	+2.2 -0.3
@ 30° Elevation (Ave):	+2.2 +1.0
@ 45° Elevation (Ave):	+3.4 +2.9
@ 70° Elevation (Ave):	+4.4 +5.3
Beam Width (3dB):	110° 88°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

**MECHANICAL:**

SIZE: DIAMETER = 3.50 in. [88.90 mm]  
 HEIGHT = 0.583 in. [14.81 mm]

WEIGHT: 5.15 oz. (.146 Kg)

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

COLOR: GLOSS WHITE #17925 PER FED-STD-595B  
 LUSTERLESS GRAY #36320 PER FED-STD-595B  
 OLIVE DRAB GREEN #34031 PER FED-STD-595B  
 LUSTERLESS BLACK #37038 PER FED-STD-595B

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

CONNECTOR: TNC FEMALE  
 (OPTION: SMA, 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 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

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV NO
10-32	MOUNTING SCREWS	MS24693C274			
	ADHESIVE GASKET (Optional)	12345G-3M-3G			
	GASKET	3G15P1001-3G			

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
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ANTCOM CORP. TORRANCE, CALIFORNIA  
 3.5" Dia. (2.4-2.5)GHz  
 LHCP ANTENNA

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas