



FAA Approved Facility

(1.25-1.35) GHz Antennas, P/N: 3G1.25-1.35RR-P-XTBC-1 (RHCP); P/N: 3G1.25-1.35LL-P-XTBC-1 (LHCP)  
 (1.35-1.45) GHz Antennas, P/N: 3G1.35-1.45RR-P-XTBC-1 (RHCP); P/N: 3G1.35-1.45LL-P-XTBC-1 (LHCP)  
 (2.00-2.30) GHz Antennas, P/N: 3G2.00-2.30RR-P-XTBC-1 (RHCP); P/N: 3G2.00-2.30LL-P-XTBC-1 (LHCP)  
 (2.20-2.40) GHz Antennas, P/N: 3G2.20-2.40RR-P-XTBC-1 (RHCP); P/N: 3G2.20-2.40LL-P-XTBC-1 (LHCP)  
 (2.40-2.50) GHz Antennas, P/N: 3G2.40-2.50RR-P-XTBC-1 (RHCP); P/N: 3G2.40-2.50LL-P-XTBC-1 (LHCP)  
 (1.75-2.30) GHz Antennas, P/N: 3G1.80-2.25RR-P-XTBC-1 (RHCP); P/N: 3G1.80-2.25LL-P-XTBC-1 (LHCP)  
 Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available



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

7 6 5 4 3 2 1

1. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

2. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

1. 2" SQ. [50.80]

2. 2.6" DIA. [66.04]

3. 3.5" DIA. [88.90]

4. MINI ARINC

1

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

**SPECIFICATIONS**

**ELECTRICAL:**

RADIATION PATTERN:		HEMISPHERICAL	
POLARIZATION:		RHCP or 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 = 0.722 in. [18.34 mm]  
 WEIGHT: 5.15 oz. (.146 Kg)  
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
 BASE IRIDIUM 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 BULKHEAD  
 (OPTION: SMA, TNC, N, N Bulkhead, MCX, MMX, 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, DO-228, MIL-C-5541,  
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

Ø 3.500 [Ø88.90]

1.900 [48.26] SQ.

4X Ø.201 [Ø5.11] THRU  
 √ Ø.385 [Ø9.78] X 100°

R6.000 [R152.40]

.722 [18.34]

TNC-FEMALE BULKHEAD CONNECTOR  
 (OPTION: SMA, TNC, N, N-Bulkhead  
 MCX, MMX, or Cable)

O-RING P/N: 2-031/N756-75

23.84"

1.945 [49.39] SQ.

4X .190-32 UNC  
 .250 DEEP  
 (FOR EXTRA MOUNTING OPTION)

SIZE:	(START - END) FREQ.	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1.25 - 1.35 GHz	LL, LHCP	A1: WITH +23 dB LNA	
1.9: 1.9" SQ.	1.35 - 1.45 GHz	RR, RHCP	A2: WITH +43 dB LNA	
2: 2.6" DIA.	2.00 - 2.30 GHz		P: WITHOUT LNA	
3: 3.5" DIA.	2.20 - 2.40 GHz			
4: MINI ARINC	2.40 - 2.50 GHz			
	X.XX - Y.YY GHz			

**P/N: 3GX.XX-Y.YYRR-P-XTBC-1**

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	N: 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, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .015 .015 ± 1°	ORIGINAL DRAWN: S. HUYNH Sep-15-03	ANTCOM CORP. TORRANCE, CA, CALIFORNIA
TOLERANCE SMF PER ANSI Y14.5	ORIGINAL DESIGNED: S. HUYNH Sep-15-03	3.5" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA
REMOVE ALL SURF BROWN LATERAL EDGES DOO TO .015 SURF IMPROVES PER MIL-S-8879 DITS IN A CHANNEL 2.25000	UPDATED: S. HUYNH Feb-01-13	SCALE 1/1
MACHINED SURFACES	UPDATE DRAWN: P. TRAN Feb-01-13	SHEET 1 OF 1
DO NOT SCALE DRAWING	APPROVED: S. HUYNH Feb-01-13	

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>  
 NMO Connector Option is Now Available for Some Antennas