



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



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$\phi 3.500$ [88.90]
 1.900 [48.26] SQ.
 $4 \times \phi .201$ [$\phi 5.11$] THRU
 $\sqrt{\phi .385}$ [$\phi 9.78$] X $100'$
 $R6.000$ [R152.40]
 $.722$ [18.34]
 TNC-FEMALE BULKHEAD CONNECTOR
 (OPTION: SMA, TNC, N, N-Bulkhead
 MCX, MMCX, or Cable)
 O-RING P/N: 2-031/N756-75
 $23.84'$
 1.945 [49.39]
 SQ.
 $4 \times .190-32$ UNC
 .250 DEEP
 (FOR EXTRA MOUNTING OPTION)

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 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 BULKHEAD
 (OPTION: SMA, TNC, 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, DO-228, MIL-C-5541,
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

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
 DECIMALS: ANGLES
 ± 1/64 DECIMALS ± 1'
 ± .005 ANGLES
 TOLERANCE SMF PER ANS Y14.5
 REVIEW ALL SURF. BROWN LATERAL EDGES DOO TO .015
 SURF. FINISHES PER MIL-S-8879
 DAYS IN A CANON 1, 2, 4, 10, 25, 100
 MACHINED SURFACES
 DO NOT SCALE DRAWING

DATE	BY	DESCRIPTION	PART NO	MATERIAL	FINISH	TEMP

ANTCOM CORP. TORRANCE, CA, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA

REV	DATE	DESCRIPTION	BY
D	3CVE1	3GX.XX-Y.YYRR-P-XTBC-1	SM

SCALE 1/1 SHEET 1 OF 1

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