



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	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, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33446 PER FED-STD-595B

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274			3
	O-RING	2-031/N756-75			2
					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMAL ANGLES ± 1/64 .015 ± 1° .005

REVIEW ALL SURF. BREAK EXTERNAL EDGES TO 0.015 SURF. FINISHES PER MIL-S-8879 DYES IN A CAVITY & 25.000 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CA, CALIFORNIA

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

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

SCALE 1/1 SHEET 1 OF 1

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