



FAA Approved Facility

(1.25-1.35) GHz Antennas, P/N: 2G1.25-1.35RR-P-XTBC-1 (RHCP); P/N: 2G1.25-1.35LL-P-XTBC-1 (LHCP)
 (1.35-1.45) GHz Antennas, P/N: 2G1.35-1.45RR-P-XTBC-1 (RHCP); P/N: 2G1.35-1.45LL-P-XTBC-1 (LHCP)
 (2.00-2.30) GHz Antennas, P/N: 2G2.00-2.30RR-P-XTBC-1 (RHCP); P/N: 2G2.00-2.30LL-P-XTBC-1 (LHCP)
 (2.20-2.40) GHz Antennas, P/N: 2G2.20-2.40RR-P-XTBC-1 (RHCP); P/N: 2G2.20-2.40LL-P-XTBC-1 (LHCP)
 (2.40-2.50) GHz Antennas, P/N: 2G2.40-2.50RR-P-XTBC-1 (RHCP); P/N: 2G2.40-2.50LL-P-XTBC-1 (LHCP)
 (2.56-2.69) GHz Antennas, P/N: 2G2.56-2.69RR-P-XSC-2 (RHCP); P/N: 2G2.56-2.69LL-P-XSC-2 (LHCP)
 (1.75-2.30) GHz Antennas, P/N: 2G1.80-2.25RR-P-XTBC-1 (RHCP); P/N: 2G1.80-2.25LL-P-XTBC-1 (LHCP)



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Technical drawing showing top, side, and front views of the antenna. Dimensions include diameter $\phi 2.630$ [66.80], height $.722$ [18.34], and mounting hole spacing 1.250 [31.75] and 1.630 [41.41].

SPECIFICATIONS

ELECTRICAL:

RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP or RHCP	
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 = 2.63 in. [66.80 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, 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

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	
1.8" 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: 2GX.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 REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	TRN NO
4	MOUNTING SCREWS: 4-40, 3/4"	MS24693-C	-	-	3
4	MOUNTING SCREWS: 6-32, 3/4"	MS24693-C	-	-	2
1	O-RING	MS28775-024	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS OVER DECIMALS ANGLES ± 1/64 .XXX .005 ± 1'		ANTCOM CORP. TORRANCE, CALIFORNIA 2.6" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA
TOLERANCE SWM PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 SOLDER TO # 200 TO # 300 SOLDER THICKNESS PER MIL-S-8879 EN'S OR A COMMON # 27-000 MACHINED SURFACES 12.5	ORIGINAL DRAWN: S. HUYNH Sep-15-03 ORIGINAL DESIGNED: S. HUYNH Sep-15-03 UPDATED: S. HUYNH Feb-01-13 UPDATE DRAWN: P. TRAN Feb-01-13 APPROVED: S. HUYNH Feb-01-13	
DR	3CVE1	P. TRAN S. HUYNH Feb-01-13
SCALE	1/1	SHEET 1 OF 1

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