



ISO 9001:2008/FAA Approved

(0.81-0.96) GHz	Antennas,	P/N: 2G0.81-0.96RR-P-XTBC-1 (RHCP);	P/N: 2G 0.81-0.96 LL-P-XTBC-1 (LHCP)	GSM 800
(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)	GMM 1800
(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)	UMTS 2100
(1.70-1.90) GHz	Antennas,	P/N: 2G1.70-1.90RR-P-XTBC-1 (RHCP);	P/N: 2G1.70-1.90LL-P-XTBC-1 (LHCP)	
(1.70-2.70) GHz	Antennas,	P/N: 2G1.70-2.70RR-P-XTBC-1 (RHCP);	P/N: 2G1.70-2.70LL-P-XTBC-1 (LHCP)	
(1.90-2.20) GHz	Antennas,	P/N: 2G1.90-2.20RR-P-XTBC-1 (RHCP);	P/N: 2G1.90-2.20LL-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)	
(4.00-6.00) GHz	Antennas,	P/N: 2G4.00-6.00RR-P-XSC-2 (RHCP);	P/N: 2G4.00-6.00LL-P-XSC-2 (LHCP)	



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Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available

NMO Connector Option is Now Available for Some Antennas

Ø2.630 [Ø66.80]

R6.000 [R152.40]

Ø .886 [22.50]

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

O-RING  
P/N: MS28775-024

1.250 [31.75]

1.630 [41.41]

4x 6-32 UNC  
.250 Deep  
Equally Spaced on 1.153 Rad.

4x 4-40 UNC  
.250 Deep  
Equally Spaced on .884 Rad.

**SPECIFICATIONS**

**ELECTRICAL:**

RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	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 = 0.886 in. [22.50 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, D0-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		HEIGHT	10/06/16	S.H

SIZE:	(START - END) FRQ:	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1.25 - 1.35 GHz	L: 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?			

  

QUANTITY	REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	TEST 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

  

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 ANG. E 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	ORIGINAL DRAWN	S. HUYNH	SEP-15-03
± 1/64 .004 .010 ± .1°	ORIGINAL DESIGNED	S. HUYNH <td>SEP-15-03</td>	SEP-15-03
TOLERANCE 5V PER ANSI Y14.5	UPDATED	S. HUYNH <td>OCT-06-16</td>	OCT-06-16
REMOVE ALL BURRS	UPDATE DRAWN	P. TRAN <td>OCT-06-16</td>	OCT-06-16
PREPARE EXTERNAL EDGES .005 TO .010	APPROVED	S. HUYNH <td>OCT-06-16</td>	OCT-06-16
SHEET 8 OF 8			
DESIGN IN A CONFORM WITH 2000			
MACHINED SURFACES			
DO NOT SCALE DRAWING			

  

<b>ANTCOM CORP.</b> TORRANCE, CALIFORNIA	
2.6" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA	
SCALE 1/1	SHEET 1 OF 1