



ISO 9001:2008/FAA Approved

(0.81-0.96) GHz Antennas, P/N: 3G0.81-0.96RR-P-XTBC-1 (RHCP); P/N: 3G0.81-0.96 LL-P-XTBC-1 (LHCP) GSM 800
 (1.25-1.35) GHz Antennas, P/N: 3G1.25-1.35RR-P-XTBC-1 (RHCP); P/N: 3G1.25-1.35 LL-P-XTBC-1 (LHCP)
 (1.35-1.45) GHz Antennas, P/N: 3G1.35-1.45RR-P-XTBC-1 (RHCP); P/N: 3G1.35-1.45 LL-P-XTBC-1 (LHCP)
 (1.70-1.90) GHz Antennas, P/N: 3G1.70-1.90RR-P-XTBC-1 (RHCP); P/N: 3G1.70-1.90 LL-P-XTBC-1 (LHCP) GMM 1800
 (1.70-2.70) GHz Antennas, P/N: 3G1.70-2.70RR-P-XTBC-1 (RHCP); P/N: 3G1.70-2.70 LL-P-XTBC-1 (LHCP) UMTS 2100
 (1.90-2.20) GHz Antennas, P/N: 3G1.90-2.20RR-P-XTBC-1 (RHCP); P/N: 3G1.90-2.20 LL-P-XTBC-1 (LHCP)
 (2.00-2.40) GHz Antennas, P/N: 3G2.00-2.40RR-P-XTBC-1 (RHCP); P/N: 3G2.00-2.40 LL-P-XTBC-1 (LHCP)
 (2.40-2.50) GHz Antennas, P/N: 3G2.40-2.50RR-P-XTBC-1 (RHCP); P/N: 3G2.40-2.50 LL-P-XTBC-1 (LHCP)
 (2.56-2.69) GHz Antennas, P/N: 3G2.56-2.69RR-P-XSC-2 (RHCP); P/N: 3G2.56-2.69 LL-P-XSC-2 (LHCP)
 (4.00-6.00) GHz Antennas, P/N: 3G4.00-6.00RR-P-XSC-2 (RHCP); P/N: 3G4.00-6.00 LL-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

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Ø3.500 [Ø88.90]

1.900 [48.26] SQ.

4X Ø.201 [Ø5.11] THRU
∇ Ø.385 [Ø9.78] X 100"

R6.000 [R152.40]

.817 [20.75]

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.

4X 10-32 UNF
.250 DEEP
(FOR EXTRA MOUNTING OPTION)

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 = 3.50 in. [88.90 mm]
 HEIGHT = 0.817 in. [20.75 mm]
 WEIGHT: 5.15 oz. (.146 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5444F
 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
A		HEIGHT	10/06/16	S.H

SIZE:	(START - END) FREQ.	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1.25 - 1.35 GHz	RR; RHCP	A1: WITH +23 dB LNA A2: WITH +43 dB LNA	
1.8" 1.9" SQ.	1.35 - 1.45 GHz	RR; LHCP	P: WITHOUT LNA	
2: 2.6" DIA.	2.00 - 2.30 GHz			
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: TWO 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: N; NB: N; N-Bulkhead	+3: CAMO GREEN #34094 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

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .004 .005 ± 1°	ORIGINALLY DESIGNED S. HUYNH Sep-15-03
TOLERANCE 5VM PER ANSI Y14.5	ORIGINALLY DESIGNED S. HUYNH Sep-15-03
RELIEVE ALL SHARP EDGES PER MIL-STD-883C METHOD 2000 TO 010	UPDATED S. HUYNH Oct-06-16
FILED IN 005 TO R 000 DATE ON A COMMON 4 27-005	UPDATE DRAWN P. TRAN Oct-06-16
MACHINED SURFACES	APPROVED S. HUYNH Oct-06-16
DO NOT SCALE DRAWING	