



ISO 9001:2008/FAA Approved

(0.81-0.96) GHz	Antenna, P/N: 3G0.81-0.96RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G0.81-0.96LL-P-XTBC-1-ACLSR (LHCP)
(0.90-1.10) GHz	Antenna, P/N: 3G0.90-1.10RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G0.90-1.10LL-P-XTBC-1-ACLSR (LHCP)
(1.25-1.35) GHz	Antenna, P/N: 3G1.25-1.35RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G1.25-1.35LL-P-XTBC-1-ACLSR (LHCP)
(1.35-1.45) GHz	Antenna, P/N: 3G1.35-1.45RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G1.35-1.45LL-P-XTBC-1-ACLSR (LHCP)
(1.70-1.90) GHz	Antenna, P/N: 3G1.70-1.90RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G1.70-1.90LL-P-XTBC-1-ACLSR (LHCP)
(1.70-2.70) GHz	Antenna, P/N: 3G1.70-2.70RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G1.70-2.70LL-P-XTBC-1-ACLSR (LHCP)
(1.90-2.30) GHz	Antenna, P/N: 3G1.90-2.30RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G1.90-2.30LL-P-XTBC-1-ACLSR (LHCP)
(2.20-2.50) GHz	Antenna, P/N: 3G2.20-2.50RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G2.20-2.50LL-P-XTBC-1-ACLSR (LHCP)
(2.40-2.50) GHz	Antenna, P/N: 3G2.40-2.50RR-P-XTBC-1-ACLSR (RHCP)	P/N: 3G2.40-2.50LL-P-XTBC-1-ACLSR (LHCP)
(2.56-2.69) GHz	Antenna, P/N: 3G2.56-2.69RR-P-XSC-2-ACLSR (RHCP)	P/N: 3G2.56-2.69LL-P-XSC-2-ACLSR (LHCP)

GSM 800

UMTS 2100



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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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SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
-	-	-	-

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 = 3.380 in. [85.85 mm]
HEIGHT = 0.988 in. [25.10 mm]

WEIGHT: 5.15 oz. (.146 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F

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

P/N: 3G1.70-2.70RR-P-XTBC-1-ACLSR

SIZE:	(START - END) FREQ.	POLARIZATION:	LNA:
1: 2" SQ.	1.25 - 1.35 GHz	LL: LHCP	A1: WITH +23 dB LNA
1.8" 1.8" 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	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
4	MOUNTING SCREWS: 6-32, 3/4"	91735A151	-	-	3
1	O-RING	MS28775-024	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES	ORIGINAL DRAWN	S. HUYNH	Oct-06-16
± 1/64 .005 .015 ± 1°	ORIGINAL DESIGNED <td>S. HUYNH <td>Oct-06-16</td> </td>	S. HUYNH <td>Oct-06-16</td>	Oct-06-16
TOLERANCE SVM PER ANSI Y14.5	UPDATED <td>S. HUYNH <td>Feb-02-17</td> </td>	S. HUYNH <td>Feb-02-17</td>	Feb-02-17
REMOVE ALL SURF. FINISHES UNLESS OTHERWISE SPECIFIED	UPDATE DRAWN <td>P. TRAN <td>Feb-02-17</td> </td>	P. TRAN <td>Feb-02-17</td>	Feb-02-17
525 W. BURKHOFF PER MIL-S-8878	APPROVED <td>S. HUYNH <td>Feb-02-17</td> </td>	S. HUYNH <td>Feb-02-17</td>	Feb-02-17
815 ON A COMMON & 27.005 MACHINED SURFACES			

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S 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: 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