



ISO 9001:2008/FAA Approved

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|-----------------|-----------|---|--|-----------|
| (0.81-0.96) GHz | Antennas, | P/N: 3G0.81-0.96RR-P-XTBC-1-ACLSR (RHCP); | P/N: 3G 0.81-0.96 LL-P-XTBC-1-ACLSR (LHCP) | GSM 800 |
| (1.25-1.35) GHz | Antennas, | 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 | Antennas, | 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 | Antennas, | P/N: 3G1.70-1.90RR-P-XTBC-1-ACLSR (RHCP); | P/N: 3G1.70-1.90LL-P-XTBC-1-ACLSR (LHCP) | GMM 1800 |
| (1.70-2.70) GHz | Antennas, | P/N: 3G1.70-2.70RR-P-XTBC-1-ACLSR (RHCP); | P/N: 3G1.70-2.70LL-P-XTBC-1-ACLSR (LHCP) | UMTS 2100 |
| (1.90-2.20) GHz | Antennas, | P/N: 3G1.90-2.20RR-P-XTBC-1-ACLSR (RHCP); | P/N: 3G1.90-2.20LL-P-XTBC-1-ACLSR (LHCP) | |
| (2.00-2.30) GHz | Antennas, | P/N: 3G2.00-2.30RR-P-XTBC-1-ACLSR (RHCP); | P/N: 3G2.00-2.30LL-P-XTBC-1-ACLSR (LHCP) | |
| (2.20-2.40) GHz | Antennas, | P/N: 3G2.20-2.40RR-P-XTBC-1-ACLSR (RHCP); | P/N: 3G2.20-2.40LL-P-XTBC-1-ACLSR (LHCP) | |
| (2.40-2.50) GHz | Antennas, | 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 | Antennas, | P/N: 3G2.56-2.69RR-P-XSC-2-ACLSR (RHCP); | P/N: 3G2.56-2.69LL-P-XSC-2-ACLSR (LHCP) | |
| (4.00-6.00) GHz | Antennas, | P/N: 3G4.00-6.00RR-P-XSC-2-ACLSR (RHCP); | P/N: 3G4.00-6.00LL-P-XSC-2-ACLSR (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

7 6 5 4 3 2 1

REVISIONS

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|------|-----|-------------|------|----------|
| - | - | - | - | - |

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 = 3.380 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

| 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 | | |

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

| 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 |

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

| UNLESS OTHERWISE SPECIFIED | ANTCOM CORP. |
|-----------------------------------|---------------------|
| DIMENSIONS ARE IN INCHES | TORRANCE CALIFORNIA |
| FRACTIONS DECIMALS ANGLES | |
| ± 1/64 .001 .01 | |
| .002 .005 ± .1° | |
| TOLERANCE SVM PER ANSI Y14.5 | |
| REMOVE ALL BURRS | |
| FINISH INTERNAL FITS .000 TO .015 | |
| 525 W. INCHES PER MIL-S-8878 | |
| 915 ON A COINER & .0005 | |
| MACHINED SURFACES | |
| DO NOT SCALE DRAWING | |

| QUANTITY | DESCRIPTION | PART NO | MATERIAL | FINISH | ITEM NO |
|----------|-----------------------------|-------------|----------|--------|---------|
| 4 | MOUNTING SCREWS: 6-32, 3/4" | 91735A151 | - | - | 3 |
| 1 | O-RING | MS28775-024 | - | - | 1 |

| SCALE | 1/1 | SHEET | 1 OF 1 |
|-------|-----|-------|--------|
| | | | |