



FAA Approved Facility

(1.25-1.35) GHz Antennas, P/N: 3G1.25-1.35RR-P-XTBC-1 (RHCP); P/N: 3G1.25-1.35LL-P-XTBC-1 (LHCP)  
 (1.35-1.45) GHz Antennas, P/N: 3G1.35-1.45RR-P-XTBC-1 (RHCP); P/N: 3G1.35-1.45LL-P-XTBC-1 (LHCP)  
 (2.00-2.30) GHz Antennas, P/N: 3G2.00-2.30RR-P-XTBC-1 (RHCP); P/N: 3G2.00-2.30LL-P-XTBC-1 (LHCP)  
 (2.20-2.40) GHz Antennas, P/N: 3G2.20-2.40RR-P-XTBC-1 (RHCP); P/N: 3G2.20-2.40LL-P-XTBC-1 (LHCP)  
 (2.40-2.50) GHz Antennas, P/N: 3G2.40-2.50RR-P-XTBC-1 (RHCP); P/N: 3G2.40-2.50LL-P-XTBC-1 (LHCP)  
 (1.75-2.30) GHz Antennas, P/N: 3G1.80-2.25RR-P-XTBC-1 (RHCP); P/N: 3G1.80-2.25LL-P-XTBC-1 (LHCP)  
 Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available



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$\phi 3.500$  [ø88.90]  
 $1.900$  [48.26] SQ.  
 $4 \times \phi .201$  [ø5.11] THRU  
 $\sqrt{\phi .385}$  [ø9.78] X 100'  
 $R6.000$  [R152.40]  
 $.722$  [18.34]  
 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.  
 $4 \times .190-32$  UNC  
 .250 DEEP  
 (FOR EXTRA MOUNTING OPTION)

**SPECIFICATIONS**

**ELECTRICAL:**

|                        |                            |            |
|------------------------|----------------------------|------------|
| RADIATION PATTERN:     | HEMISPHERICAL              |            |
| POLARIZATION:          | RHCP or LHCP               |            |
| 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 = 0.722 in. [18.34 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, DO-228, MIL-C-5541,  
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

| 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 |         |
| 1.9: 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     |               |                     |         |

| QTY | DESCRIPTION                  | PART NO       | MATERIAL | FINISH | REV |
|-----|------------------------------|---------------|----------|--------|-----|
|     | MOUNTING SCREWS: 10-32, 3/4" | MS24693C274   |          |        | 3   |
|     | O-RING                       | 2-031/N756-75 |          |        | 2   |
|     |                              |               |          |        | 1   |

**ANTCOM CORP.** TORRANCE, CA, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA

SCALE 1/1

SHEET 1 OF 1

**P/N: 3GX.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   | N: 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              |

NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

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