



P/N: 3G14.40-15.35RR-P-XTC-1 (14.40-15.35 GHz), RHCP; P/N: 3G14.40-15.35LL-P-XTC-1 (14.40-15.35 GHz), LHCP  
 P/N: 3G14.40-15.35VV-P-XTC-1 (14.40-15.35 GHz), Vertical; P/N: 3G14.40-15.35HH-P-XTC-1 (14.40-15.35 GHz), Horizontal



Other Frequencies, Connectors and Mounting Foot Prints Are Available

ISO 9001:2008/FAA Approved Facility

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

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

NMO Connector Option is Now Available for Some Antennas

Top View: Diameter  $\varnothing 3.500$  [88.90], Square  $1.900$  [48.26] SQ., 4X  $\varnothing .201$  [5.11] THRU  $\varnothing .385$  [9.78] X  $100^\circ$

Side View: Diameter  $R6.000$  [R152.40], Height  $.592$  [15.04]

Bottom View: O-RING P/N: 2-031/N756-75, Diameter  $23.84$ , 4X 10-32 UNF .150 DEEP (FOR EXTRA MOUNTING OPTION), Square  $1.900$  [48.26] SQ.

**SPECIFICATIONS**

**ELECTRICAL:**

|                        |                            |            |
|------------------------|----------------------------|------------|
| FREQUENCY:             | Ku-Band (14.40-15.35) GHz  |            |
| RADIATION PATTERN:     | HEMISPHERICAL              |            |
| POLARIZATION:          | RHCP                       |            |
| VSWR:                  | 2.0:1                      |            |
| 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):      | 90°                        | 88°        |
| AXIAL RATIO @ Zenith:  | 3.0 dB                     |            |
| IMPEDANCE:             | 50 Ohms                    |            |
| POWER HANDLING:        | 200 Watt                   |            |
| DC GROUNDING:          | YES (LIGHTNING PROTECTION) |            |

**MECHANICAL:**

SIZE: DIAMETER = 3.50 in. [ 88.90 mm]  
 HEIGHT = 0.592 in. [15.04 mm]

WEIGHT: 3.0 oz. (85 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
 BASE ROHS IRIDITE PER MIL-C-5541 Class 1A and Class 3

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDAN

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

**ENVIRONMENTAL:**

TEMPERATURE: -67 °F TO +203 °F [-55 °C TO +95 °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

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

| SIZE:         | (START - END) FREQ. | POLARIZATION: | LNA:                | FILTER: |
|---------------|---------------------|---------------|---------------------|---------|
| 1: 2" SQ.     | 1.25 - 1.35 GHz     | LL: 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     |               |                     |         |
|               | XXX - Y.YY GHz      |               |                     |         |

**P/N: 3G14.40-15.35RR-P-XTC-1**

| 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  |
| R: CABLE LENGTH (IN) | N, NB: N, N-Bulkhead     | -3: CAMO GREEN #34094 PER FED-STD-595B       |
|                      | T, TB: TNC, TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |
|                      |                          | -5: TAN #33446 PER FED-STD-595B              |

| QUANTITY | RECD | DESCRIPTION                  | PART NO       | MATERIAL | FINISH | REV |
|----------|------|------------------------------|---------------|----------|--------|-----|
| 4        |      | MOUNTING SCREWS: 10-32, 3/4" | MS24693-C274  |          |        | 3   |
| 1        |      | O-RING                       | 2-031/N756-75 |          |        | 1   |

|   |          |                                       |  |
|---|----------|---------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |
| FRACTIONS   | DECIMALS | ANGLES                                |  |
| ± 1/64  | ± .005   | ± 1°                                  |  |
| TOLERANCE S/M PER ANG Y14.5                         |          |                                       |  |
| REMOVE ALL BURRS                                    |          |                                       |  |
| SPECIFIC TO THIS DRAWING: DIMENSIONS TO BE TO .015  |          |                                       |  |
| SHEET NUMBER PER MIL-STD-8839                       |          |                                       |  |
| DATE ON A COMBINATION OF 25,000                     |          |                                       |  |
| MACHINED SURFACES                                   |          |                                       |  |
| DO NOT SCALE DRAWING                                |          |                                       |  |

|   |                         |
|---|-------------------------|
| <b>ANTCOM CORP.</b> TORRANCE, CALIFORNIA      |                         |
| 3.5" Dia. FLAT FIXED MOUNT<br>Ku-BAND ANTENNA |                         |
| D   | REV                     |
| 3CVE1   | 3G14.40-15.35RR-P-XTC-1 |
| SCALE 1/1                                     | SHEET 1 OF 1            |