



FAA Approved Facility

# Ku-Band Antenna

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



Other Frequencies, Connectors and Mounting Foot Prints Are Available

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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

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

NMO Connector Option is Now Available for Some Antennas

Top View:  $\phi 3.500$  [ø88.90], 1.900 [48.26] SQ., 4X  $\phi .201$  [ø5.11] THRU  $\phi .385$  [ø9.78] X 100°

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

Bottom View: 23.84", 1.900 [48.26] SQ., 4X 10-32 UNF .150 DEEP (FOR EXTRA MOUNTING OPTION)

Labels: TNC FEMALE CONNECTOR (OPTION: SMA, TNC-Bulkhead, N, N-B, MCX, MMCX, or Cable); O-RING P/N: 2-031/N756-75

**SPECIFICATIONS**

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		ULTEM RADOME	01/25/17	S.H
B		STD .3G RADOME	02/06/17	S.H

**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 IRIDIUM 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 RETARDANT

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			

**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

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

**ANTCOM CORP.** TORRANCE, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT Ku-BAND ANTENNA

SCALE 1/1 SHEET 1 OF 1

**NOTES:** UNLESS OTHERWISE SPECIFIED:

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

CABLE'S LENGTH: X: NO CABLE; M: WITH MAG. MOUNT; R: CABLE LENGTH (IN); R: RIGHT ANGLE CON.

CONNECTOR: S: SMA; P: PINS; M: MCX; MM: MMCX; N, NB: N, N-Bulkhead; T, TB: TNC, TNC-Bulkhead

COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B; -2: LUSTERLESS GRAY #36320 PER FED-STD-595B; -3: CAMO GREEN #34094 PER FED-STD-595B; -4: LUSTERLESS BLACK #37038 PER FED-STD-595B; -5: TAN #33446 PER FED-STD-595B