



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

ISO 9001:2008/FAA Approved Facility

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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . 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

Technical drawing showing top, side, and bottom views of the antenna. Dimensions include diameter (3.500 in), height (.592 in), and mounting hole locations. Labels include '4X 10-32 UNF .150 DEEP (FOR EXTRA MOUNTING OPTION)', 'O-RING P/N: 2-031/N756-75', and 'TNC FEMALE CONNECTOR (OPTION: SMA, TNC-Bulkhead, N, N-B, MCX, MMCX, or Cable)'.

**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			

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

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

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

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

DATE	BY	DESCRIPTION
Jan-07-15	S. HUYNH	ORIGINALLY DRAWN
Jan-07-15	S. HUYNH	ORIGINALLY DESIGNED
Feb-06-17	S. HUYNH	UPDATED
Feb-06-17	P. TRAN	UPDATE DRAWN
Feb-06-17	S. HUYNH	APPROVED

**ANTCOM CORP.** TORRANCE, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT  
 Ku-BAND ANTENNA

D	3CVE1	3G14.40-15.35RR-P-XTC-1-C	BT
SCALE	1/1	SHEET	1 OF 1