



ISO 9001:2008/FAA Approved Facility

Ku-Band Antennas
 P/N: 2BR-14.5-15.35R-P-XT-2 Rev C (14.5-15.35 GHz), RHCP
 P/N: 2BR-14.5-15.35L-P-XT-2 Rev C (14.5-15.35 GHz), LHCP
 P/N: 2BR-14.5-15.35V-P-XT-2 Rev C (14.5-15.35 GHz), Vertical
 P/N: 2BR-14.5-15.35H-P-XT-2 Rev C (14.5-15.35 GHz), Horizontal
 Other Frequencies, Connectors and Mounting Foot Prints Are Available
 Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



FAA Approved
TSO Antennas

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
B		Connector Options	Oct-15-14	S.H
C		Revised Env. Data And TSO Specs.	Mar-31-15	S.H

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	Ku-Band (14.5 - 15.35) GHz
PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	RHCP or VERTICAL
ANTENNA GAIN:	≥0 dB @ (-5° to 40°) Elevation, (0° El = Horizon)
3dB BEAMWIDTH, Elevation:	50°
3dB BEAMWIDTH, Azimuth:	360°
AXIAL RATIO:	1 to 7dB over (-5° to 40°) Elevation
VSWR:	2.0:1
OUTPUT IMPEDANCE:	50 Ω
POWER HANDLING:	150 watts

MECHANICAL:

SIZE: WIDTH: 2.062 in. [52.4 mm], LENGTH: 5.25 in. [133.3 mm]
 HEIGHT: 5.9 in. [150 mm]

WEIGHT: 7.4 oz. (210 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
 GLOSS WHITE #17925 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
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: TNC FEMALE CONNECTOR

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]
 ALTITUDE: 70,000 ft.
 VIBRATION: 10 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C169A, DO-160D,
 MIL-E-5400, MIL-I-45208A, MIL-STD-810

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

O-RING MS28775-024
 OD Ø1.278
 ID Ø1.090

TNC FEMALE CONNECTOR (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)
 Clearance Hole: 0.4" Dia.
 0.52" Dia. for TNC Con.
 0.63" Dia. for N Con.

QUANTITY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TEST NO
4	SCREW, MOUNTING	MS24693C273	-	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES: ± 1/64 ± .005 ± 1°

TOLERANCE SURF PER ANSI Y14.5

RESURF: ALL SURF: BREAK EXTERNAL EDGES TO 0.015

FILED: 0.005 TO 0.010

SCREW THREADS PER UNF-2B

DRS ON A COMMON & 2D

MACHINED SURFACES ✓

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Ku-BAND AIRBORNE ANTENNA

DATE: 3CVE1 DRAWN BY: S. HUYNH

SCALE: 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas