



**(4.0 – 6.0) GHz C-Band Antenna**  
**P/N: 52R-4.0-6.0R-O-XN-1 (RHCP)**  
**P/N: 52R-4.0-6.0L-O-XN-1 (LHCP)**



Other Frequencies, Connector, Color and Mounting Options are Available

ISO 9001:2008/FAA Approved Facility

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

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Ø2.163 [54.94]

4.530 [115.06]

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

O-RING  
 P/N: MS28775-024  
 4X 6-32 UNC  
 .270 DEEP  
 ON 1.625 DIA

**P/N: 52R-4.0-6.0R-O-XN-1**

(START - END) FREQ.	POLARIZATION:	LNA:	CONNECTOR:	COLOR:
1.35 - 1.45 GHz	L: LHCP	A1: WITH +23 dB LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
2.00 - 2.30 GHz	R: RHCP	A2: WITH +43 dB LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2.20 - 2.40 GHz	V: VERTICAL	P: WITHOUT LNA	N: NB; N-N: Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
2.40 - 2.50 GHz	H: HORIZONTAL		T, TB: TNC, TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4.00 - 6.00 GHz				-5: TAN #33446 PER FED-STD-595B
X,XX - Y,YY GHz				

**SPECIFICATIONS**

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
-	-	-	-

**ELECTRICAL:**

FREQUENCY:	(4.0 - 6.0) GHz
RADIATION PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	RHCP
VSWR:	2:1
GAIN (dB):	4 dBic
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	50 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

**MECHANICAL:**

SIZE: DIAMETER = 2.163 In.[54.94 mm]  
 HEIGHT = 4.530 in. [115.06 mm]

WEIGHT: 3.15 oz. (89 g)

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

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

CONNECTOR: N FEMALE  
 (OPTION: SMA, TNC, 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, D0-228, MIL-C-5541,  
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
-	O-RING	MS28775-024			1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINALLY DESIGNED	S. HUYNH	Oct-06-16
FRACTIONS TO DECIMALS: 1/64 .002 .015 ± 1/64 .002 .015 ± 1'	ORIGINALLY DESIGNED	S. HUYNH <td>Oct-06-16</td>	Oct-06-16
TOLERANCE 5/16 PER ANSI Y14.5	UPDATED	S. HUYNH <td>Feb-03-17</td>	Feb-03-17
RELIEVE ALL SHARP BREAK EXTERNAL EDGES .005 TO .015	UPDATE DRAWN	P. TRAN <td>Feb-03-17</td>	Feb-03-17
TELE # 310 782 1076	APPROVED	S. HUYNH <td>Feb-03-17</td>	Feb-03-17
SOB # 100255 PER MIL-S-8878			
3143 ON A COMMON 6 27 005			
MACHINED SURFACES V			
DO NOT SCALE DRAWING			

**ANTCOM CORP.** TORRANCE, CALIFORNIA

**C-BAND CONICAL SPIRAL ANTENNA**

REV	DATE	ISSUED BY	ISSUED TO	REV
D	3CVE1		52R-4.0-6.0R-O-XN-1	-

SCALE 1/1 SHEET 1 OF 1