



### S-Band Antenna

P/N: 52W-x.xx-y.yyP-XTB-X (x.xx-y.yy) GHz, TNC Bulkhead

P/N: 52W-2.40-2.50P-XTB-X (2.40-2.50) GHz, TNC Bulkhead



2.5" Tall Rod Top Mount Configuration, Other Frequencies, Connectors and Colors 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>

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**SPECIFICATIONS**

ZONE REV		DESCRIPTION	DATE	APPROVED
C		S/C BAND	02/11/16	S.H

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED
C		S/C BAND	02/11/16	S.H

$\phi 1.750$  [44.45]  
 (OPTION: 0.5" WITHOUT FLANGE)  
 $\phi 0.500$  [12.70]  
 $3X \phi 0.201$  [5.11] THRU  
 $\phi 0.385$  [9.78] X 100°  
 ON .625 RAD.

2.500 [63.50]

0.25" [6.37] (MCX/MMCX),  
 0.46" [11.68] (SMA/R-SMA),  
 0.57" [14.53] (TNC),  
 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

TNC-BULKHEAD CONNECTOR  
(OPTIONAL: QMA, SMA, N)

**ELECTRICAL:**

FREQUENCY (MHz):	S-BAND (2400-2500)
PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	VERTICAL
ANTENNA GAIN :	> 2 dB
VSWR:	2.0:1
OUTPUT IMPEDANCE:	50 $\Omega$
POWER HANDLING:	>50 watts (Without LNA)
LNA OPTION:	GAIN: 20 dB, NF: 1.4-4.1 dB, OP1dB: +18dB, OIP3: +33dB DC: (5 to 24) Volt @ <70mA

**MECHANICAL:**

SIZE: DIAMETER: TOP= 0.500 in [12.70 mm], BOTTOM= 1.75 in [44.45 mm]  
 HEIGHT: 2.5 in [63.5mm]

WEIGHT: 1.2oz. (34g)

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

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: BULKHEAD TNC FEMALE  
 (OPTIONAL: SMA, N, MCX, MMCX, SMB, QMA)

**ENVIRONMENTAL:**

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

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810E

1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1						1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DRAWN	S. HUYNH	Oct-12-01
FRACTIONS DECIMALS ANGLES $\pm 1/64$ .xxx .005 $\pm 1^\circ$	ORIGINAL DESIGNED	S. HUYNH	Oct-12-01
TOLERANCE SYM PER ANSI Y14.5	UPDATED	S. HUYNH	Feb-11-16
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLET R .005 TO R .030 SCREW THREADS PER MIL-S-8879 DIAS ON A COMMON $\epsilon 20$ .005	UPDATE DRAWN	P. TRAN	Feb-11-16
MACHINED SURFACES $\sqrt{\text{V}}$	APPROVED	S. HUYNH	Feb-11-16
DO NOT SCALE DRAWING			

CONFIGURATION:	FREQUENCY:	LNA:	FEMALE CONNECTOR:	COLOR:
52: WITH 1.75IN DIA. FLANGE	2.40-2.50; (2400-2600) MHz	A: WITH +20 dB LNA	S: SMA; RS: R-SMA; Q: QMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
5: WITHOUT FLANGE (Reduce the Weight by 0.61oz (17g))		P: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
			N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	X.XX-Y.YY:(X.XX-Y.YY) GHz			-5: DESERT TAN #33446 PER FED-STD-595B

P/N: 52W-X.XX-Y.YYP-XTB-X

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NMO Connector Option is Now Available for Some Antennas