



UHF, GSM/PCS/L-Band, L/S, S, C, X, or Ku-Band Antenna,  
 P/N: 52W-X.XX-Y.YYP-XX-X (Vertical) ; P/N: 52W-4.4-5.0R-P-XS-1 (4.40-5.85 GHz, RHCP)  
 P/N: 52W-7.5-8.0P-XN-3-2.5 (7.5-8.0 GHz, 2.5in Tall)



Other Frequencies, Polarization, Connectors, and LNA Options 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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 THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

**MECHANICAL:**

Ø.500 [Ø12.70]

3xØ.201 [Ø5.11] Thru.  
 ✓ Ø.385 [Ø9.78] X 100°  
 EQUAL SPACE ON 1.25" BC

Ø1.750 [Ø44.45]  
 (OPTION: 0.5" WITHOUT FLANGE)

C-Band: 1in, 2.5in for Active  
 S-Band: 2.5 in  
 L/UHF: 4.5in  
 See Part Number Below

NAME PLATE

FLAT

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

**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

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
52: WITH 1.75IN DIA. FLANGE	0.31-0.40: (310-400) MHz	A: WITH +20 dB LNA	X: NO CABLE	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))	0.35-0.40: (350-400) MHz	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	0.40-0.45: (400-450) MHz		#: CABLE LENGTH (IN)	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	0.81-0.95: (810-950) MHz		R: RIGHT ANGLE CON.	T: TNC, TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	0.85-1.90: (850-1900) MHz				
	1.20-2.50: (1200-2500) MHz				
	1.33-1.54: (1332-1540) MHz				
	1.61-1.85: (1610-1850) MHz				
	1.50-2.50: (1500-2500) MHz				
	1.80-1.90: (1800-1900) MHz				
	2.40-2.50: (2400-2500) MHz				
	4.40-5.85: (4400-5850) MHz				
	X.XX-Y.YY-(X.XX-Y.YY) GHz				

**CONFORMAL RADIUS OPTION:**

-3: 3.000" RADIUS (SDBII)  
 -3.5N: 3.500" RADIUS (NETFIRE, GMLRS)  
 -4P: 4.000" RADIUS (PAVEWAY)  
 -6M: 6.000" RADIUS (MAVERICK)  
 -7.5E: 7.500" RADIUS (EGBU, MALD)  
 -14A: 14.000" RADIUS (ACM)  
 -X: X" RADIUS (Ø: Flat, No Radius)

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY (MHz):	UHF	GSM/PCS/L-BAND	L/S-BAND	S-BAND	C-BAND
(310-400) or (350-450)	(400-450)	(1332-1540) (1610-1850) (1800-1990)	(1610-1850) (1500-2500) (2400-2500)	(2400-2500)	(4400-5850) (3675-5125)
PATTERN:	OMNIDIRECTIONAL				
POLARIZATION:	VERTICAL				
ANTENNA GAIN:	> 2 dB				
VSWR:	2.0:1				
OUTPUT IMPEDANCE:	50 Ω				
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: 1 in [25.4mm] (C-Band), 2.5 in [63.5mm] (S-Band), 4.5 in [35.5mm] (L/UHF Band), See Part Number Below

WEIGHT: UHF: 1.8 oz. (52g); L-Band: 1.4oz. (40g); S-Band: 1.2oz. (34g); C-Band: 1.1oz. (31g). (for SMA: Reduce 0.32 oz (9g) for All Antennas.)

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

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: BULKHEAD FEMALE TNC (P1)  
 (SMA, N, AND OTHERS ARE OPTIONAL)

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**ANTCOM CORP. TORRANCE CALIFORNIA**

UHF, GSM/PCS/L-BAND, L/S, S, C-BAND OMNI ANTENNA

DATE: APR 05-05  
 DRAWING NO: 52W-X.XX-Y.YYP-XTB-X  
 SCALE: 1/1

NMO Connector Option is Now Available for Some Antennas