



UHF, GSM/PCS/L-Band, L/S, S, or C-Band Antenna,
 P/N: 52W-X.XX-Y.YYP-XX-X
 1, 2.5", and 4.5" Tall Rod Configuration
 LNA Options is 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 . <http://www.antcom.com>

NOTICE OF PROPRIETARY RIGHTS
 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:

Top View: $\phi 1.750$ [044.45] (OPTION: 0.5" WITHOUT FLANGE)

Side View: $\phi 0.500$ [12.70]

Flange: 3x $\phi 0.201$ [05.11] Thru. $\checkmark \phi 0.385$ [09.78] X 100° EQUAL SPACE ON 1.25" BC

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

Connector Options: 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)

Bottom View: 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.

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	UHF (310-400) (400-450) (810-960)	GSM/PCS/L-BAND (1332-1540) (1610-1850) (1800-1990) (800-1990)	L/S-BAND (1500-2500) (2400-2500) (1200-2500)	S-BAND (2400-2500)	C-BAND (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)

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 WITHOUT FLANGE (Reduce the Weight by 0.61oz (17g))	0.31-0.40: (310-400) MHz 0.35-0.40: (350-400) MHz 0.40-0.45: (400-450) MHz 0.51-0.95: (510-950) MHz 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	A: WITH +20 dB LNA P: WITHOUT LNA	X: NO CABLE M: WITH MAG. MOUNT # : CABLE LENGTH (IN) R: RIGHT ANGLE CON.	S: SMA, RS: R-SMA, Q: QMA M: MCX, MM: MMCX N: N, NB: N-Bulkhead T: TNC, TB: TNC-Bulkhead	1: GLOSS WHITE #17925 PER FED-STD-595B 2: LUSTERLESS GRAY #36320 PER FED-STD-595B 3: OLIVE DRAB GREEN #34031 PER FED-STD-595B 4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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: 14.00" RADIUS (ACM)
- X: X" RADIUS (0: Flat, No Radius)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ARE: ANGLES $\pm 1/64$.XXX .015 $\pm 1^\circ$.XXX .005

TOLERANCE SYM PER ANSI Y14.5

REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILETS R .005 TO R .030
 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMM. 2, 2FF.005

MACHINED SURFACES $\sqrt{}$

DO NOT SCALE DRAWING

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.

P/N: 52W-X.XX-Y.YYP-XS-4-5