



UHF, GSM/PCS/L-BAND, L/S, S, or C-Band Antenna,

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

1, 2.5", and 4.5" Tall Rod Conformal Configuration

24 dB Gain, 12 VDC from RF Connector, LNA Options is Available

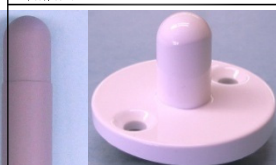
Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



ISO 9001:2008/FAA Approved Facility

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2x0.201 [0.511] Thru.
0.385 [0.978] X 100°
EQUAL SPACE ON 1.25" BC

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

(-3): R3.000 [R76.20]
(-3.5N): R3.500 [R88.90]
(-4P): R4.000 [R101.60]
(-6M): R6.000 [R152.40]
(-7.5E): R7.500 [R190.50]
(-5): R5.000in, (-X): RX.XXX



CONFORMAL RADIUS OPTION:
-3: 3.000" RADIUS (SDBI)
-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 (0: Flat, No Radius)

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	UHF	GSM/PCS/L-BAND	L/S-BAND	S-BAND	C-BAND
	(310-400) (400-450) (810-960)	(1332-1540) (1610-1850)	(1500-2500) (2400-2500)	(4400-5850)	(3675-5125)
or	(350-450)	(1800-1990) (800-1990)	(1200-2500)		
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:
S2: 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
S5: WITHOUT FLANGE	0.35-0.40: (350-400) MHz	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
(Reduce the Weight by 0.61oz (17g))	0.40-0.45: (400-450) MHz		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	0.81-0.96: (810-960) 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				
	1.80-1.99: (1800-1990) MHz				
	2.40-2.50: (2400-2500) MHz				
	4.40-5.85: (4400-5850) MHz				
	XXX.Y.YY.(XX.XX-YY)GHz				

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1						1

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

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 .xxx .015 ± 1°
.xxx .005

TOLERANCE SYM PER ANS Y14.5

REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILES R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON .25/.005

MACHINED SURFACES 125

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

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

APPROVED: S. HUYNH
Apr 11-05-05

DATE: D 3CVE1
SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas