



Wide-Band UHF Antenna

P/N: 52W-0.xx-0.yyP-XTB-1 Rev C ((xxx-yyy)MHz, TNC Bulkhead)

P/N: 52W-0.45-0.52P-XTB-1-BB ((450-520)MHz, TNC Bulkhead)

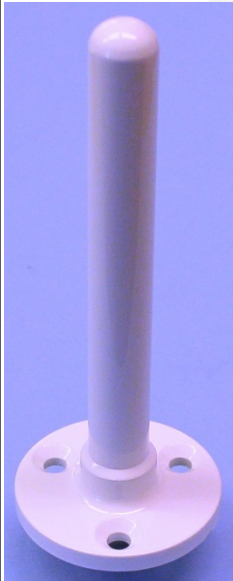
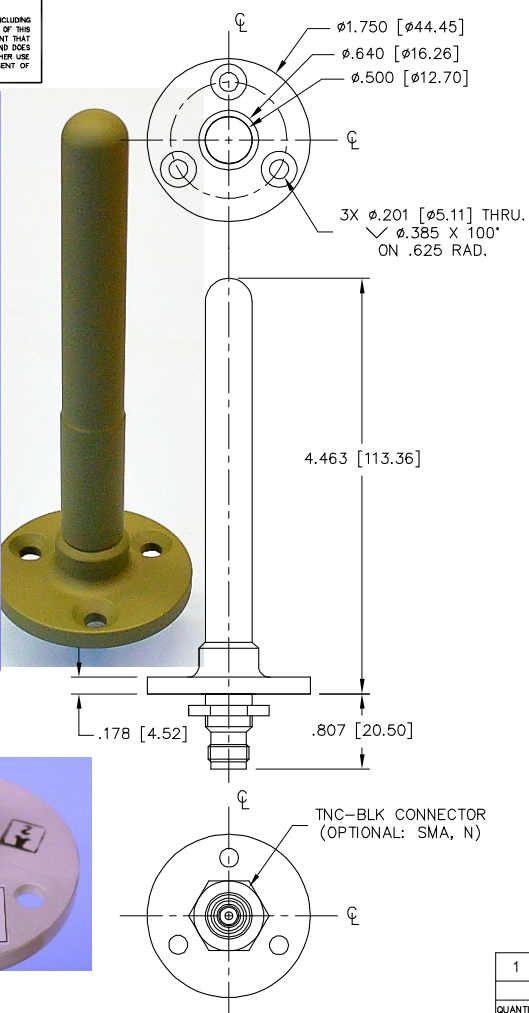


4.5" Tall Rod, Top Mount Configuration, Other Frequencies, Connectors and Colors are Available

ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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3X ϕ .201 [ϕ 5.11] THRU.
 \checkmark ϕ .385 X 100'
ON .625 RAD.

4.463 [113.36]

.178 [4.52]

.807 [20.50]

TNC-BLK CONNECTOR (OPTIONAL: SMA, N)

SPECIFICATIONS

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED
C		NEW BASE	02/11/16	S.H

ELECTRICAL:

	UHF	GSM/PCS/L-BAND
FREQUENCY (MHz):	(310-400) / (350-450)	(800-1990) / (1332-1540)
	(400-450) / (810-960)	(1610-1850) / (1800-1990)
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: 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: 4.463 in. [113.36 mm]

WEIGHT: <1.8 oz. (51g)

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

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

CONNECTOR: TNC BULKHEAD (OPTIONAL: SMA, N)

ENVIRONMENTAL:

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

FEDERAL & MILITARY SPECIFICATIONS:

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

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
$\pm 1/64$.XXX \pm .050	$\pm 1^\circ$

TOLERANCE SURF PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .016
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ϕ \pm .005
MACHINED SURFACES \checkmark

DO NOT SCALE DRAWING

ORIGINALY DRAWN S. HUYNH Oct-12-01
ORIGINALY DESIGNED S. HUYNH Oct-12-01
UPDATED S. HUYNH Feb-11-16
UPDATE DRAWN P. TRAN Feb-11-16
APPROVED S. HUYNH Feb-11-16

ANTCOM CORP. TORRANCE CALIFORNIA

OUTLINE DRAWING:
WIDE-BAND UHF ANTENNA

SIZE	CASE NO	DRAWING NO	REV
D	3CVE1	52W-X.XX-Y.YYP-XX-X	C

SCALE 1/1 SHEET 1 OF 1

FREQUENCY: LNA: CONNECTOR: COLOR:

0.31-0.40: (310-400) MHz	A: WITH +20 dB LNA	S: SMA FEMALE	-1: GLOSS WHITE #17825 PER FED-STD-595B
0.35-0.40: (350-400) MHz	P: WITHOUT LNA	T: TNC FEMALE	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
0.40-0.45: (400-450) MHz		TB: TNC-BLK	-3: CAMO GREEN #34094 PER FED-STD-595B
0.81-0.98: (810-960) MHz		N: N FEMALE	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
0.85-1.50: (850-1500) MHz			-5: DESERT TAN #33446 PER FED-STD-595B
1.33-1.54: (1332-1540) MHz			
1.61-1.85: (1610-1850) MHz			
1.85-1.99: (1850-1990) MHz			
X.XX-Y.YY: (X.XX-Y.YY) GHz			

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