



ISO 9001:2008/FAA Approved Facility

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



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

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3x ϕ .201 [ϕ 5.11] Thru.
 \surd ϕ .385 [ϕ 9.78] X 100"
 EQUAL SPACE ON 1.25" BC

ϕ .500 [ϕ 12.70]

ϕ 1.750 [ϕ 44.45]
 (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.

| 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 | | | | |

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

SPECIFICATIONS

ELECTRICAL:

| FREQUENCY (MHz): | UHF | GSM/PCS/L-BAND | L/S-BAND | S-BAND | C-BAND |
|--|--|-------------------------|-------------------------------------|-------------------------|-------------------------|
| (310-400) (400-450) (810-960) or (350-450) | (1332-1540) (1610-1850) (1800-1990) | (1500-2500) (2400-2500) | (1610-1850) (1800-1990) (1200-2500) | (1500-2500) (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)

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

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 | REV NO |
|---------------|-------------|---------|---------------|----------|--------|--------|
| 1 | | | | | | |

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES ARE: ANGLES \pm 1/64 .XXX .015 \pm 1'
 .XXX .005 \pm 1'

TOLERANCE SYM PER ANSI Y14.5

REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILETS R .005 TO .030
 SCREW THREADS PER MIL-S-8879
 DIA'S ON A COMM. 2.57-.005

MACHINED SURFACES \surd

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

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

| DRAWN | CHECKED | ENGINEER | APPROVED | DWG NO | CAGE NO | DRAWING NO | REV |
|-------|---------|----------|-------------------------|--------|---------|----------------------|-----|
| | | | S. HUYNH April-05-05 | D | 3CVE1 | 52W-X.XX-Y.YYP-XTB-X | B |

SCALE 1/1 SHEET 1 OF 1