ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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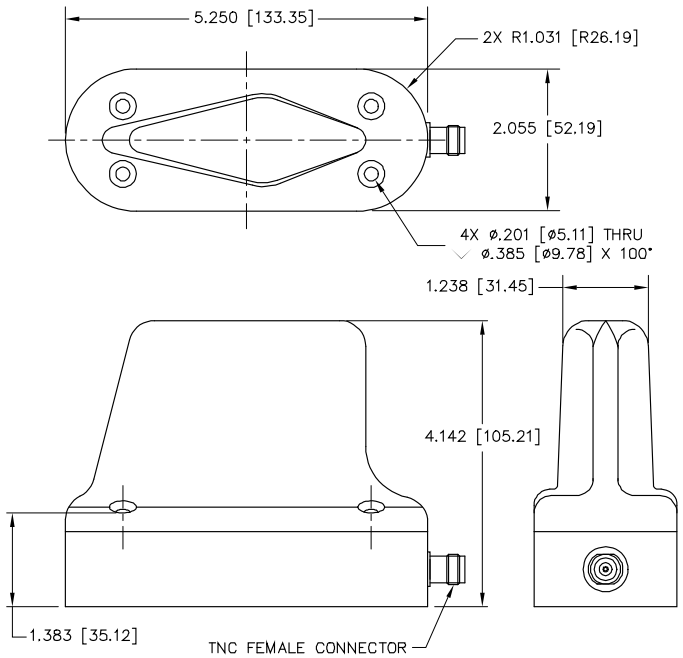


## SPECIFICATIONS

| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| | | | | |

### ELECTRICAL:

| | UHF/L/S-BAND |
|---|---|
| FREQUENCY: | 698-960MHz / 1710-2170MHz / 2300-2700MHz |
| PATTERN: | OMNIDIRECTIONAL |
| POLARIZATION: | VERTICAL |
| ANTENNA GAIN : | 3.5 dBil (on MInImum 24In Ground Plane) |
| | |
| VSWR: | 700 MHz = 2.8:1, 800 MHz = 2.2:1, >800 MHz = 2.0:1 |
| OUTPUT IMPEDANCE: | 50 Ω |
| POWER HANDLING: | 100 watts CW |
| LIGHTNING PROTECTION: | DC GROUNDING |
| LNA OPTION: (FOR Rx ONLY) | GAIN: 12 dB, NF: 4.1 dB, OP1dB: +13dB, OIP3: +28dB DC: 12 Volt @ 50mA |

### MECHANICAL:

| | |
|---|---|
| SIZE: | WIDTH: 2.055 in. [52 mm], LENGTH: 5.25 in. [133 mm], HEIGHT: 4.142 In. [105.2 mm] |
| WEIGHT: | 8.6 oz. (244 g) |
| FINISH: | SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F |
| MATERIAL: | 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE |
| CONNECTOR: | TNC FEMALE (OPTIONAL: SMA, N, BNC, TNC) |

### 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:

FAA TSO C160a, FAA TSO-C144, DO-160D (ENV/EMI), DO-228 (ENV/EMI), MIL-C-5541F, MIL-PRF-39012 (CONN), MIL-STD-810G (ENV/EMI), MIL-HDBK-5400 (ELEC), MIL-STD-464C (ELEC MAG), MIL-STD-130N-1 (ID), MIL-STD-889B (METAL), RCC-319-14 (TERMINATION) , RCC-324-01(SAFETY), SAE J1455 (AUTO), MIL-STD-1472 (DOD), MIL-I-45208A, AND NAS411-1 (HAZ)

| SIZE: | START FREQ. (GHz): | STOP FREQ. (GHz): | DC BLOCK/LIMITTER: | LNA OPTION (Rx ONLY): |
|---|---|---|---|---|
| 1: 2" SQ. | 0.22, 0.31, 0.35, 0.37, | 0.31, 0.35, 0.37, 0.40, | DL: WITH DC BLOCK | V: WITHOUT LNA |
| 1.9: 1.9" SQ. | 0.40, 0.42, 0.45, 0.47, | 0.41,0.42, 0.45, 0.47, | & WITH LIMITTER | A: WITH 12 dB LNA |
| 2: 2.6" DIA. | 0.70, 0.80, 0.99, 1.30 | 0.70, 0.80, 0.99, 1.40 | BLANK: WITHOUT DC | A2: WITH 20 dB LNA |
| 3: 3.5" DIA. | 1.50, 1.60, 1.70, 1.80 | 1.55, 1.65, 1.75, 1.85 | BLOCK OR LIMITTER | P: WITHOUT LNA |
| 3B: 3in BLADE | 1.99, 2.40, 2.70 | 1.99, 2.50, 2.70 | | |
| 5B: 5in Blade, 53: Rod | X . XX | Y . YY | | |

# P/N: 3B-0.70-2.70V-NT-X

| MAGNET MOUNT OPTION: | CONNECTOR: | COLOR: |
|---|---|---|
| MN: WITH FLUSH MAGNET | S: SMA; P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B |
| N: NO MAGNET | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B |
| M: WITH BIG NONE FLUSH MAGNET | N: N/N-Bulkhead | -3: CAMO GREEN #34094 PER FED-STD-595B |
| | T, TB: TNC, TNC- Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |
| | BNC: BNC | -5: DESERT TAN #33446 PER FED-STD-595B |

| QUANTITY REQD | DESCRIPTION | PART NO | MATERIAL | FINISH | ITEM NO |
|---|---|---|---|---|---|
| | | | | | 2 |
| 4 | SCREW, MOUNTING | 91771A838, Item 577-2.0 | - | - | 1 |

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE: FRACTIONS ± 1/64 DECIMALS .XX ± .015 .XXX ± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 CHAMFER .010 X 45 DEG
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON Ø ±.005 T.I.R.
MACHINED SURFACES 125/

DO NOT SCALE DRAWING

| | | |
|---|---|---|
| ORIGINALLY DRAWN | S. HUYNH | April-26-10 |
| ORIGINALLY DESIGNED | S. HUYNH | April-26-10 |
| UPDATED | S. HUYNH | April-12-16 |
| UPDATE DRAWN | P. TRAN | April-12-16 |
| APPROVED | S. HUYNH | April-12-16 |

**ANTCOM CORP.** TORRANCE CALIFORNIA

OUTLINE DRAWING
VIDEO/DATA LINK ANTENNA

| SIZE | CAGE NO | DRAWING NO | REV |
|---|---|---|---|
| D | 3CVE1 | 3B-0.70-2.70V-NT-X | - |

SCALE 1/1 SHEET 1 OF 1