



ELECTRICAL SPECIFICATIONS

| | | |
|------------------------|-------------------------------|------------|
| FREQUENCY: | (2483 - 2500) MHz | |
| RADIATION PATTERN: | HEMISPHERICAL | |
| POLARIZATION: | RHCP OR LHCP (See P/N Below) | |
| VSWR: | < 1.5:1 | |
| GAIN (dB): | 4 ft G.P. | Free Space |
| @ 90° (Zenith): | +4.6 | +5.1 |
| @ 10° Elevation (Ave): | -1.1 | -2.1 |
| @ 20° Elevation (Ave): | +1.9 | -0.3 |
| @ 30° Elevation (Ave): | +2.6 | +1.1 |
| @ 45° Elevation (Ave): | +3.0 | +2.6 |
| @ 70° Elevation (Ave): | +4.0 | +4.6 |
| Beam Width (3dB): | 139 ° | 99 ° |
| AXIAL RATIO @ Zenith: | 2.0 dB | |
| IMPEDANCE: | 50 Ohms | |
| POWER HANDLING: | 200 Watt | |
| DC GROUNDING: | YES (LIGHTNING PROTECTION) | |

LNA OPTION:

| | | |
|--------------------------|-------|----------------------------------------|
| LNA GAIN: | N/A | (35 +/- 1) dB |
| LNA NOISE FIGURE: | N/A | 2.8 dB |
| LNA VOLTAGE: | N/A | (+2.5 to +30) Volts DC FROM Rx RF CON. |
| LNA DRAWING CURRENT: | N/A | < 38 mA |
| FILTER (REJ. @1616 MHz): | 57 dB | |

MECHANICAL:

SIZE: DIAMETER = 2.60 in.[66.04 mm]
HEIGHT = 0.742 in. [18.85 mm]

WEIGHT: 5.15 oz. (146 g)

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

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: SMA FEMALE CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; ADHESIVE GASKET & MOUNTING NUT PROVIDED

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

| | | | | | |
|------------------------------|--------------|------------|----------|--------|----------|
| MOUNTING SCREWS: 10-32, 3/4" | J507C1032R12 | - | - | 5 | |
| ADHESIVE GASKET | 12345G-3M-3G | - | - | 3 | |
| | | - | - | 1 | |
| QUANTITY REQD | DESCRIPTION | PART NO | MATERIAL | FINISH | ITEM NO. |
| | | PARTS LIST | | | |

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| CONFIGURATION: 1. 2.6" DIA. (FLAT) 1.8" DIA. SQ. (P) 2. 4.5" DIA. 3. 4.5" DIA. (R) 4. (MINI ARCADE) 53: (FLUX ROD) 56: (FLUX BLADE) 30: (FLUX SHIELD) | POLARIZATION: LL: LHCP RR: RHCP | LNA: A1: WITH +34 dB LNA P: WITHOUT LNA | CABLE'S LENGTH: X: NO CABLE M: WITH MAG. MOUNT # CABLE LENGTH (IN) R: RIGHT ANGLE CON. | CONNECTOR: S: SMA; P: PINS M: MCX; MM: MMCX N: N; NB: N-Bulkhead T: TNC; TB: TNC-Bulkhead | COLOR: -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 |
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NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS (mm)
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: 2G25XX-X-MS-1

ANTCOM CORP. TORRANCE CALIFORNIA

2.6" Dia. FLAT MAGNETIC MOUNT
S-BAND CP ANTENNA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS TOLERANCES AND ANGLES
 $\pm 1/64$ DECIMALS
TOLERANCE 0.001 PER ANSI Y14.5
REWORK ALL BLUES
BREAK EXTERNAL EDGES TO .015
FILL IN .001 TO .002
SOFTEN THREADS PER MIL-STD-8839
DAYS ON A COARSE T-2
MACHINED SURFACES
DO NOT SCALE DRAWING

DRIVEN
CHECKED
DESIGNED
APPROVED S. HUYNH
DATE DEC-13-02

REV
D 3CVE1 2G25XX-X-MS-1
SCALE 1/1
SHEET 1 OF 1