



FAA Approved Facility

(2.1-2.3)GHz Telemetry Antenna P/N: 3CG22RR-P-XS-4-1.989 (RHCP), P/N: 3CG22LL-P-XS-4-1.989 (LHCP) 3.5", Xin Radius Conformal Configurations

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



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>

3.500 [88.90] SQ.
6 x 1.500 [38.10]
3 x 3.000 [76.20]
4xR.250 [R6.35]
R2.125 [R53.98]
R1.989 [R50.52] ★
.843 [21.42]
92.00°
2.250 [57.15] SQ.
.149 [3.78]
.255 [6.48]

8xØ.164 [Ø4.17] Thru.
✓ Ø.325 [Ø8.26] X 100'

ANTENNA'S NORTH (FORWARD) DIRECTION INDICATION

SPECIFICATIONS

| REVISIONS | | DATE | APPROVED |
|-----------|-----|-------------|--------------|
| ZONE | REV | DESCRIPTION | |
| A | | Release | 08/26/09 S.H |

ELECTRICAL:

| S-Band | |
|-------------------------|----------------------|
| FREQUENCY: | (2-1 to 2.3) GHz |
| RADIATION PATTERN: | HEMISPHERICAL |
| POLARIZATION: | RHCP |
| VSWR: | < 1.5:1 |
| GAIN (dBi): | Free Space 4 ft G.P. |
| @ 90° (Zenith): | +2.5 +4.6 |
| @ 10° Elevation: | -4.3 -1.1 |
| @ 20° Elevation: | -3.0 +2.2 |
| @ 30° Elevation: | -1.5 +2.2 |
| @ 60° to 90° Elevation: | > 1.7 >+3.4 |
| BEAM WIDTH (3dB): | 104° 129° |
| AXIAL RATIO @ Zenith: | 2 dB |
| POWER HANDLING: | 100 W |
| LIGHTNING PROTECTION: | DC GROUNDING |

MECHANICAL:

SIZE: 3.50 in. [88.90 mm] SQ.
HEIGHT = 0.655 in. [16.64 mm]
WEIGHT: <5.5 oz. (160 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441
COLOR: FIELD GREEN, FED-STD-595, COLOR #3409 5
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: SMA FEMALE
(OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

| QUANTITY REQD. | DESCRIPTION | PARTS LIST | PART NO. | FINISH | THROW |
|----------------|-------------|------------|----------|--------|-------|
| 4 | | | | | 5 |
| 1 | | | | | 1 |
| -2 | | | | | |

CONFORMAL RADIUS OPTION:

- 3: 3.000" RADIUS S
- 3.5N: 3.500" RADIUS (NETFIRE, GMLRS, NLOS)
- 4P: 4.000" RADIUS (PAVERWAY)
- 5M: 5.000" RADIUS (INVERSION)
- 7.5EM: 7.500" RADIUS (EGBU, MALD)
- 14A: 14.000" RADIUS (AGCM)
- X: X" RADIUS (Ø Fil: No Radius)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TOLERANCES ARE DECIMALS

| FORM | CHECKED | ENGINEER | APPROVED | DATE | SCALE | SHEET | OF |
|------|---------|----------|----------|-----------|-------|-------|----|
| FORM | | | S. HUYNH | Aug-10-09 | 1/1 | 1 | 1 |

ANTCOM CORP. TORRANCE, CALIFORNIA
PASSIVE RHCP S-BAND ANTENNA

3CG22RR-P-XS-4-1.989

SCALE 1/1

SHEET 1 OF 1

3. PER LOCKHEED MARTIN IGES FILE

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

| CABLE'S LENGTH: | CONNECTOR: | COLOR: |
|----------------------|----------------------|--|
| X: NO CABLE | S: SMA; P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B |
| M: MAG, N: NO MAG. | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B |
| F: CABLE LENGTH (IN) | N: NB; N: N-Bulkhead | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B |
| R: RIGHT ANGLE CON. | T: TNC; TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |

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