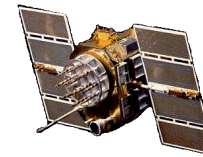




Passive L1/L2 GPS Antenna, P/N: 2.5CG1215P-XS-X-5.75R-871C
 For High Speed Vehicle. Compliance with Document No: 735DD0164
 2.50in. Dia., 5.75in Conformal Radius with Flange Configuration, 871 °C



2 of This Antenna (Top/Bottom) Can Be Used with 2-Way Power Divider (P/N: 2G1215S-XS2-2) for Wrap Around Coverage
 Other Conformal Radius, Frequencies, Connector, Color, Cable Length and Mounting Options are Available

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

ANTCOM CORPORATION . 367 Van Ness Way, #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

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

ELECTRICAL:

| | L1: (1575.42 ±13) MHz | L2: (1227.60 ±13) MHz |
|------------------------|---|-----------------------|
| FREQUENCY: | | |
| RADIATION PATTERN: | HEMISPHERICAL (360° In Azimuth/ >90° In EI) | |
| POLARIZATION: | RHCP | RHCP |
| VSWR: | < 1.5:1 | < 1.5:1 |
| IMPEDANCE: | 50 ohms | 50 ohms |
| ANTENNA GAIN (dBi): | Free Space | Free Space |
| @ 90 ° (ZENITH): | + 2.0 | + 0.2 |
| @ 10 ° Elevation: | - 5.8 | - 5.0 |
| @ 20 ° Elevation: | - 4.5 | - 3.9 |
| @ 30 ° Elevation: | - 2.8 | - 3.5 |
| @ 60 - 90 ° Elevation: | > +1.7 | > -0.8 |
| BEAM WIDTH (3dB): | 105 Deg. | 90 Deg. |
| AXIAL RATIO: | 3 dB | 3 dB |
| LIGHTNING PROTECTION: | DC GROUNDING | |
| POWER HANDLING: | 200 Watt CW | |

MECHANICAL:

SIZE: 2.50 In [63.50 mm] DIAMETER
 HEIGHT = 0.492In. [12.50 mm]

WEIGHT: 3.4 oz. (96 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441F
 COATING PER MIL-PRF-85582E AND MIL-PRF-85285E

MATERIAL: 316H STAINLESS STEEL HOUSING
 CERAMIC RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT

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

ENVIRONMENTAL:

TEMPERATURE: -70 °F TO +1600 °F [-57 °C TO +871 °C]
 ALTITUDE: 100,000 ft.
 SHOCK/VIBRATION: 100 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: 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), MIL-STD-1472 MIL-E-5400, MIL-I-45208A, SAE J1455, AND NAS411-1 (HAZ)

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

| QUANTITY REQD | DESCRIPTION | PART NO | MATERIAL | FINISH | ITEM NO |
|---------------|----------------------|---------------|----------|--------|---------|
| 1 | 2-WAYS POWER DIVIDER | 2G1215S-XS2-2 | | | 1 |
| 3 | | | | | 3 |
| 2 | | | | | 2 |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

| FRACTIONS | DECIMALS | ANGLES |
|-----------|----------|--------|
| ± 1/64 | ± .001 | ± 1° |
| ± 1/32 | ± .002 | ± 1° |
| ± 1/16 | ± .005 | ± 1° |

ANTCOM CORP. TORRANCE, CALIFORNIA

CONFORMAL L1L2 GPS ANTENNA

DATE: Dec-21-15
 DRAWN: S. HUYNH
 DESIGNED: S. HUYNH
 CHECKED: S. HUYNH
 APPROVED: P. TRAN
 DATE: Mar-03-16

SCALE: 1/1

SHEET 1 OF 1

P/N: 2.5CG1215P-XS-X-5.75R-871C

| SIZE: | FREQ. BAND: | LNA: |
|---------------|-------------|---|
| 1: 2" SQ. | 1215: L1/L2 | A: WITH LNA |
| 1.9: 1.9" SQ. | 15: L1 ONLY | P: WITHOUT LNA |
| 3: 3.5" SQ. | | AL: WITH LNA/LIMITER/FILTER (INPUT: +50dBm, OUPUT: -30 dBm) |
| 2: 2.6" DIA. | | PL: PASSIVE WITH LIMITER/FILTER (INPUT: +50dBm, OUPUT: +30 dBm) |
| 4: MINI ARINC | | |

| CABLE'S LENGTH: | CONNECTOR: | COLOR: | CONFORMAL RADIUS: |
|----------------------|--------------------------|--|-------------------|
| X: NO CABLE | S: SMA; P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B | 5.75; 5.75in. |
| M: MAG., N: NO MAG. | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B | |
| #: CABLE LENGTH (IN) | SMP; SMP; SSMCR; SSMC-R | -3: CAMO GREEN #34094 PER FED-STD-595B | |
| R: RIGHT ANGLE CON. | T, TB: TNC, TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B | |
| | | -5: DESERT TAN #33446 PER FED-STD-595B | |