



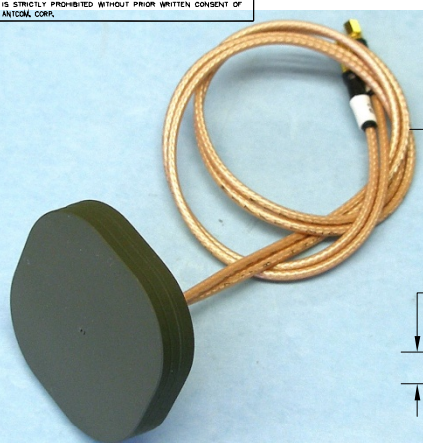
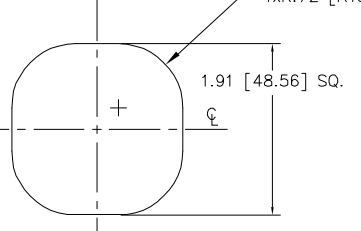
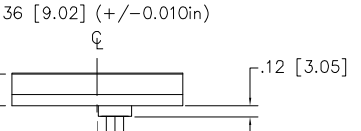

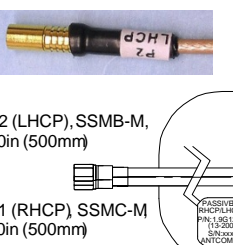

FAA Approved Facility

RHCP/LHCP L1/L2 GPS Antenna, P/N: 1.9G1215P2-20SSMCB-3 Rev D
Dual Linear (V/H) L1/L2 GPS Antenna, P/N: 1.9G1215P2L-20SSMCB-3 Rev D
Low Profile (1.9X1.9x0.36) in, Flat/Front Mount Configuration

Antenna Mounts: <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>

<p>6</p> <p>5</p> <p>4</p> <p>3</p> <p>2</p> <p>1</p>	<p>NOTICE OF PROPRIETARY RIGHTS</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.</p>       <p>4xR.72 [R18.19]</p> <p>1.91 [48.56] SQ.</p> <p>.36 [9.02] (+/-0.010in)</p> <p>.12 [3.05]</p> <p>.26 [6.50]</p> <p>.76 [19.31]</p> <p>MOUNTING: ADHESIVE</p> <p>.39 [9.98]</p> <p>P2 (LHCP), SSMB-M, 20in (500mm)</p> <p>P1 (RHCP) SSMC-M 20in (500mm)</p> <p>PASSIVE NLOS PAM L1 L2 RHCP/LHCP GPS ANTENNA P/N: 1.9G1215P2-20SSMCB-3 (13-2008-00) 08 08 08 S/N: 109453 WT: 2.4 oz. ANTCOM USA, C03-3VE1</p> <p>P/N: 1.9G1215P2-20SSMCB-3</p> <p>1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]</p> <p>SIZE: 1.2" SQ. 1.9" SQ. 2.3" SQ. 2.6" DIA. 3.35" DIA.</p> <p>FREQ. BAND: 1215 L1/L2 15: L1 ONLY</p> <p>POLARIZATION: A2: WITH 20 dB LNA A4: WITH 40 dB LNA P: WITHOUT LNA P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION</p> <p>LNA OPTIONS:</p> <p>CABLE'S LENGTH: X: NO CABLE M: MAG. N: NOMAG P: CABLE LENGTH (IN) R: RIGHT ANGLE CON.</p> <p>CONNECTOR: S: SMA; P: P2- PINS M: MMC; MM: MMC X N: NB; R: S-SMA T: TB; TNC; TNC-Bulkhead</p> <p>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 #37030 PER FED-STD-595B</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 .005 .020 ± 1°</p> <p>TOLERANCE SYM PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILET R .005 TO R .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON C 257.005</p> <p>MACHINED SURFACES</p> <p>DO NOT SCALE DRAWING</p> <p>1 2 3 4 5 6</p>	<p>1</p> <p>REVISIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ZONE</th> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>SPECIFICATIONS</p> <p>ELECTRICAL:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">L1: (1575.42 ±12) MHz</th> <th colspan="2">L2: (1227.60 ±12) MHz</th> </tr> <tr> <th>Free Space</th> <th>3 in G.P.</th> <th>4 ft G.P.</th> <th>4 ft G.P.</th> </tr> </thead> <tbody> <tr> <td>FREQUENCY:</td> <td colspan="4"></td> </tr> <tr> <td>RADIATION PATTERN:</td> <td colspan="4">HEMISPHERICAL</td> </tr> <tr> <td>POLARIZATION:</td> <td colspan="4">RHCP/LHCP</td> </tr> <tr> <td>VSWR:</td> <td colspan="2">< 2.0:1</td> <td colspan="2">< 2.0:1</td> </tr> <tr> <td>IMPEDANCE:</td> <td colspan="2">50 ohms</td> <td colspan="2">50 ohms</td> </tr> <tr> <td>ANTENNA GAIN (dBic):</td> <td>Free Space</td> <td>3 in G.P.</td> <td>4 ft G.P.</td> <td>4 ft G.P.</td> </tr> <tr> <td>@ 90 ° (ZENITH):</td> <td>+2.7</td> <td>+4.7</td> <td>+3.1</td> <td>+1.5</td> </tr> <tr> <td>@ 10 ° Elevation:</td> <td>-4.4</td> <td>-1.8</td> <td>-1.9</td> <td>-6.7</td> </tr> <tr> <td>@ 20 ° Elevation:</td> <td>-2.3</td> <td>-0.3</td> <td>+0.6</td> <td>-5.6</td> </tr> <tr> <td>@ 30 ° Elevation:</td> <td>-0.8</td> <td>+1.4</td> <td>+1.7</td> <td>-4.5</td> </tr> <tr> <td>@ 60 - 90 ° Elevation:</td> <td>> 2.0</td> <td>> 3.9</td> <td>> 2.4</td> <td>> 0.0</td> </tr> <tr> <td>BEAM WIDTH (3dB):</td> <td>113 Deg.</td> <td>114 Deg.</td> <td>143 Deg.</td> <td>85 Deg.</td> </tr> <tr> <td>AXIAL RATIO:</td> <td colspan="2">2 dB</td> <td colspan="2">2 dB</td> </tr> <tr> <td>LIGHTNING PROTECTION:</td> <td colspan="4">DC GROUNDING</td> </tr> </tbody> </table> <p>LNA OPTION:</p> <p>LNA GAIN: (21.0+/-2.0) dB LNA NOISE FIGURE: 1.8 dB LNA P 1dB Out: +16 dBm VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA</p> <p>MECHANICAL:</p> <p>SIZE: 1.912 in. [48.56mm] SQ. HEIGHT: 0.36 in. [9.02 mm] WEIGHT: 2.4 oz. (69 g) FINISH: SKYDROL RESISTANT POLYURETHANENAMEL BASE IRIDITE PER MIL-C-5441</p> <p>MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE</p> <p>CONNECTOR: 20 IN SSMC MALE CABLES (OPTION: SMC, SMB, SSMB, SMA, PIN, TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable)</p> <p>ENVIRONMENTAL:</p> <p>TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] ALTITUDE: 70,000 ft. VIBRATION: >30 G's LEAKAGE: HERMETICALLY SEAL</p> <p>FEDERAL & MILITARY SPECIFICATIONS</p> <p>DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A AND MIL-STD-810</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>1</th> <th>ADHESIVE GASKET</th> <th>12345G-3M-1G</th> <th>-</th> <th>-</th> <th>-</th> <th>1</th> </tr> <tr> <th>QUANTITY REQD</th> <th>DESCRIPTION</th> <th>PART NO</th> <th>SPECIFICATION</th> <th>MATERIAL</th> <th>FINISH</th> <th>ITEM NO.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>ANTCOM CORP. TORRANCE, CALIFORNIA</p> <p>1.9" SQUARE, L1/L2 PASSIVE RHCP/LHCP GPS ANTENNA</p> <p>SCALE 1/1</p> <p>SHEET 1 OF 1</p> <p>DATE: 13 JUN 08</p> <p>APPROVED: S. HUYNH June-05-08</p> <p>DRAWN: BJC</p> <p>ENGINEER: BJC</p> <p>DO NOT SCALE DRAWING</p>	ZONE	REV	DESCRIPTION	DATE	APPROVED							L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) MHz		Free Space	3 in G.P.	4 ft G.P.	4 ft G.P.	FREQUENCY:					RADIATION PATTERN:	HEMISPHERICAL				POLARIZATION:	RHCP/LHCP				VSWR:	< 2.0:1		< 2.0:1		IMPEDANCE:	50 ohms		50 ohms		ANTENNA GAIN (dBic):	Free Space	3 in G.P.	4 ft G.P.	4 ft G.P.	@ 90 ° (ZENITH):	+2.7	+4.7	+3.1	+1.5	@ 10 ° Elevation:	-4.4	-1.8	-1.9	-6.7	@ 20 ° Elevation:	-2.3	-0.3	+0.6	-5.6	@ 30 ° Elevation:	-0.8	+1.4	+1.7	-4.5	@ 60 - 90 ° Elevation:	> 2.0	> 3.9	> 2.4	> 0.0	BEAM WIDTH (3dB):	113 Deg.	114 Deg.	143 Deg.	85 Deg.	AXIAL RATIO:	2 dB		2 dB		LIGHTNING PROTECTION:	DC GROUNDING				1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	1	QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO.							
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