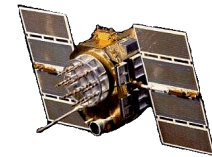




# Passive L1/L2 GPS Antenna, P/N: 2.3G1215P-XRS-4 Rev A

## Low Profile (2.15x2.07x0.37) in, Flat/Front Mount Configuration



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](mailto:antennas@antcom.com) . <http://www.antcom.com>

| 6  | 5   | 4  | 3             | 1                     |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|--|---|--|---------------|-----------------------|----------------------------|-----------------------|---|--------------------------|--|---|--|--------------------|---|----------------------|------------------|--|------------------------------|--------------------------|--|------------------|--|---|-----------------------------------|--|--|-------------------------|---------|--|------------------------------|---------|--|----------------------------|-----------|---------|-------------------|--|---------|----------------------|--|----------------------|------------|-----------|-----------|------------|-----------|-----------|-----------------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------------------|----------|----------|----------|---------|----------|---------|--------------|------|--|--|------|--|--|-----------------------|--------------|--|--|--|--|--|
| NOTICE OF PROPRIETARY RIGHTS<br>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. |   | <b>SPECIFICATIONS</b><br><table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th rowspan="2">ZONE</th> <th rowspan="2">REV</th> <th colspan="2">REVISIONS</th> </tr> <tr> <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>   |               |                       | ZONE                       | REV                   | REVISIONS   |                          | DESCRIPTION  | DATE  | APPROVED                                 |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| ZONE   | REV   | REVISIONS  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | DESCRIPTION  | DATE          | APPROVED              |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <b>ELECTRICAL:</b><br><table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>FREQUENCY:</th> <th colspan="3">L1: (1575.42 ±12) MHz</th> <th colspan="3">L2: (1227.60 ±12) MHz</th> </tr> </thead> <tbody> <tr> <td>RADIATION PATTERN:</td> <td colspan="6" style="text-align: center;">HEMISPHERICAL</td> </tr> <tr> <td>POLARIZATION:</td> <td colspan="6" style="text-align: center;">RHCP</td> </tr> <tr> <td>VSWR:</td> <td colspan="3" style="text-align: center;">&lt; 1.5:1</td> <td colspan="3" style="text-align: center;">&lt; 1.5:1</td> </tr> <tr> <td>IMPEDANCE</td> <td colspan="3" style="text-align: center;">50 ohms</td> <td colspan="3" style="text-align: center;">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>Free Space</td> <td>3 in G.P.</td> <td>4 ft G.P.</td> </tr> <tr> <td>  @ 90° (ZENITH):</td> <td>+ 2.7</td> <td>+ 3.1</td> <td>+ 3.1</td> <td>+ 1.5</td> <td>+ 3.3</td> <td>+ 4.5</td> </tr> <tr> <td>  @ 10° Elevation:</td> <td>- 4.4</td> <td>- 1.8</td> <td>- 1.9</td> <td>- 6.7</td> <td>- 3.8</td> <td>- 3.5</td> </tr> <tr> <td>  @ 20° Elevation:</td> <td>- 2.3</td> <td>- 0.3</td> <td>+ 0.6</td> <td>- 5.6</td> <td>- 2.0</td> <td>- 0.8</td> </tr> <tr> <td>  @ 30° Elevation:</td> <td>- 0.8</td> <td>+ 1.4</td> <td>+ 1.7</td> <td>- 4.5</td> <td>- 0.5</td> <td>+ 1.4</td> </tr> <tr> <td>  @ 60 - 90° Elevation:</td> <td>&gt; 2.0</td> <td>&gt; 3.9</td> <td>&gt; 2.4</td> <td>&gt; 0.0</td> <td>&gt; 2.7</td> <td>&gt; 2.2</td> </tr> <tr> <td>BEAM WIDTH (3dB):</td> <td>113 Deg.</td> <td>114 Deg.</td> <td>143 Deg.</td> <td>85 Deg.</td> <td>106 Deg.</td> <td>74 Deg.</td> </tr> <tr> <td>AXIAL RATIO:</td> <td colspan="3" style="text-align: center;">2 dB</td> <td colspan="3" style="text-align: center;">2 dB</td> </tr> <tr> <td>LIGHTNING PROTECTION:</td> <td colspan="6" style="text-align: center;">DC GROUNDING</td> </tr> </tbody> </table> |               |                       | FREQUENCY:                 | L1: (1575.42 ±12) MHz |   |                          | L2: (1227.60 ±12) MHz  |   |  | RADIATION PATTERN: | HEMISPHERICAL                               |                      |                  |  |                              |                          | POLARIZATION:                                | RHCP             |  |   |                                   |  |  | VSWR:                   | < 1.5:1 |  |                              | < 1.5:1 |  |                            | IMPEDANCE | 50 ohms |                   |  | 50 ohms |                      |  | ANTENNA GAIN (dBic): | Free Space | 3 in G.P. | 4 ft G.P. | Free Space | 3 in G.P. | 4 ft G.P. | @ 90° (ZENITH): | + 2.7 | + 3.1 | + 3.1 | + 1.5 | + 3.3 | + 4.5 | @ 10° Elevation: | - 4.4 | - 1.8 | - 1.9 | - 6.7 | - 3.8 | - 3.5 | @ 20° Elevation: | - 2.3 | - 0.3 | + 0.6 | - 5.6 | - 2.0 | - 0.8 | @ 30° Elevation: | - 0.8 | + 1.4 | + 1.7 | - 4.5 | - 0.5 | + 1.4 | @ 60 - 90° Elevation: | > 2.0 | > 3.9 | > 2.4 | > 0.0 | > 2.7 | > 2.2 | BEAM WIDTH (3dB): | 113 Deg. | 114 Deg. | 143 Deg. | 85 Deg. | 106 Deg. | 74 Deg. | AXIAL RATIO: | 2 dB |  |  | 2 dB |  |  | LIGHTNING PROTECTION: | DC GROUNDING |  |  |  |  |  |
| FREQUENCY:   | L1: (1575.42 ±12) MHz                                   |  |               | L2: (1227.60 ±12) MHz |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| RADIATION PATTERN:   | HEMISPHERICAL   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| POLARIZATION:  | RHCP  |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| VSWR:  | < 1.5:1   |  |               | < 1.5:1               |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| IMPEDANCE  | 50 ohms   |  |               | 50 ohms               |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| ANTENNA GAIN (dBic):   | Free Space  | 3 in G.P.  | 4 ft G.P.     | Free Space            | 3 in G.P.                  | 4 ft G.P.             |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| @ 90° (ZENITH):  | + 2.7   | + 3.1  | + 3.1         | + 1.5                 | + 3.3                      | + 4.5                 |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| @ 10° Elevation:   | - 4.4   | - 1.8  | - 1.9         | - 6.7                 | - 3.8                      | - 3.5                 |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| @ 20° Elevation:   | - 2.3   | - 0.3  | + 0.6         | - 5.6                 | - 2.0                      | - 0.8                 |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| @ 30° Elevation:   | - 0.8   | + 1.4  | + 1.7         | - 4.5                 | - 0.5                      | + 1.4                 |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| @ 60 - 90° Elevation:  | > 2.0   | > 3.9  | > 2.4         | > 0.0                 | > 2.7                      | > 2.2                 |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| BEAM WIDTH (3dB):  | 113 Deg.  | 114 Deg.   | 143 Deg.      | 85 Deg.               | 106 Deg.                   | 74 Deg.               |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| AXIAL RATIO:   | 2 dB  |  |               | 2 dB                  |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| LIGHTNING PROTECTION:  | DC GROUNDING  |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <b>LNA OPTION:</b><br>LNA GAIN: (21.0+/-2.0) dB<br>LNA NOISE FIGURE: 1.8 dB<br>LNA P 1dB Out: +16 dBm<br>VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <b>MECHANICAL:</b><br>SIZE: 2.31 in. [58.56 mm] SQ.<br>HEIGHT: 0.37 in. [9.35 mm]<br>WEIGHT: 2.4 oz. (68 g)<br>FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441<br>MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE<br>CONNECTOR: SMA RIGHT ANGLE FEMALE (OPTION: PIN, TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable)  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <b>ENVIRONMENTAL:</b><br>TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]<br>ALTITUDE: 70,000 ft<br>VIBRATION: >30 G's<br>LEAKAGE: HERMETICALLY SEAL  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <b>FEDERAL &amp; MILITARY SPECIFICATIONS</b><br><b>DESIGN TO:</b> FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A AND MIL-STD-810  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>1</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>   |               |                       | 1                          | DESCRIPTION           | PART NO   | SPECIFICATION            | MATERIAL   | FINISH  | ITEM NO                                  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| 1  | DESCRIPTION   | PART NO  | SPECIFICATION | MATERIAL              | FINISH                     | ITEM NO               |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>SIZE:</th> <th>FREQ. BAND:</th> <th>LNA:</th> </tr> </thead> <tbody> <tr> <td>1: 2" SQ.</td> <td>1215: L1/L2</td> <td>A2: WITH 20 dB LNA</td> </tr> <tr> <td>1.9: 1.9" SQ.</td> <td>15: L1 ONLY</td> <td>A4: WITH 40 dB LNA</td> </tr> <tr> <td>2.3: 2.3" SQ.</td> <td> </td> <td>P: WITHOUT LNA</td> </tr> <tr> <td>2: 2" DIA.</td> <td> </td> <td>P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION</td> </tr> <tr> <td>3: 3.5" DIA.</td> <td> </td> <td>P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION</td> </tr> </tbody> </table>  |               |                       | SIZE:                      | FREQ. BAND:           | LNA:  | 1: 2" SQ.                | 1215: L1/L2  | A2: WITH 20 dB LNA                                      | 1.9: 1.9" SQ.                            | 15: L1 ONLY        | A4: WITH 40 dB LNA                          | 2.3: 2.3" SQ.        |                  | P: WITHOUT LNA                               | 2: 2" DIA.                   |                          | P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION | 3: 3.5" DIA.     |  | P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| SIZE:  | FREQ. BAND:   | LNA:   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| 1: 2" SQ.  | 1215: L1/L2   | A2: WITH 20 dB LNA   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| 1.9: 1.9" SQ.  | 15: L1 ONLY   | A4: WITH 40 dB LNA   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| 2.3: 2.3" SQ.  |   | P: WITHOUT LNA   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| 2: 2" DIA.   |   | P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| 3: 3.5" DIA.   |   | P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
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| CABLE'S LENGTH:  | CONNECTOR:  | COLOR:   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| X: NO CABLE  | S: SMA; P: P2; 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  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| #: CABLE LENGTH (IN)   | N: NB: RS: R-SMA  | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| R: RIGHT ANGLE CON.  | T: TB: TNC, TNC-Bulkhead                                | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B   |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
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| UNLESS OTHERWISE SPECIFIED   | ANTENNA   | ANTENNA  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| DIMENSIONS ARE IN INCHES   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| FRACTIONS TOLERANCES ARE DECIMALS ANGLES   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| ± 1/64 .XXX ± 1°   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| TOLERANCE S/M PER ANSI Y14.6   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| REMOVE ALL BURRS   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| BREAK EXTERNAL EDGES .005 TO .015  |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| FILLET R .005 TO R .030  |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| SCREW THREADS PER MIL-S-8879   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| DIA'S ON A COMMON & Z .005   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| MACHINED SURFACES  |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| DO NOT SCALE DRAWING   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
|  |   | <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>ANTCOM CORP.</th> <th>TORRANCE CALIFORNIA</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">L1/L2 PASSIVE GPS ANTENNA for NLOS (PAM)</td> </tr> <tr> <td>           DRAWN: S. HUYNH<br/>           CHECKED: S. HUYNH<br/>           ENGINEER: S. HUYNH<br/>           APPROVED: S. HUYNH<br/>           CAD FILE NO:         </td> <td>           SIZE: D<br/>           QAGE NO: 3C<br/>           DRAWING NO: VE1<br/>           SCALE: 1/1         </td> </tr> </tbody> </table>  |               |                       | ANTCOM CORP.               | TORRANCE CALIFORNIA   | L1/L2 PASSIVE GPS ANTENNA for NLOS (PAM)  |                          | DRAWN: S. HUYNH<br>CHECKED: S. HUYNH<br>ENGINEER: S. HUYNH<br>APPROVED: S. HUYNH<br>CAD FILE NO: | SIZE: D<br>QAGE NO: 3C<br>DRAWING NO: VE1<br>SCALE: 1/1 |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| ANTCOM CORP.   | TORRANCE CALIFORNIA                                     |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
| L1/L2 PASSIVE GPS ANTENNA for NLOS (PAM)   |   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
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| 2  | 1   |  |               |                       |                            |                       |   |                          |  |   |  |                    |   |                      |                  |  |                              |                          |  |                  |  |   |                                   |  |  |                         |         |  |                              |         |  |                            |           |         |                   |  |         |                      |  |                      |            |           |           |            |           |           |                 |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                  |       |       |       |       |       |       |                       |       |       |       |       |       |       |                   |          |          |          |         |          |         |              |      |  |  |      |  |  |                       |              |  |  |  |  |  |
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