The newly introduced N100-3 GPS Antenna has been designed to provide a reduced size aperture for Antijam GPS reception over the full military GPS M-Code bandwidth. The N100-3 footprint is a mere 7.0” x 7.0”. The antenna assembly is a four-element antenna aperture which is designed to receive right-hand circularly polarized (RHCP) radiated signals from NAVSTAR GPS satellites and couple the radio frequency (RF) signal to the antenna electronics (not supplied by Harris) via four coaxial cables. When used in conjunction with AE equipment such as GAS-1 or ADAP null steering electronics, the four-element array is used to adaptively steer nulls in the presence of interfering jamming signals. The antenna assembly contains the antenna elements, radome, housing, and TNC female bulkhead connectors.

Microstrip patch type radiators provide a low-profile package while a hybrid feed incorporated in each element allows operation over a wide temperature band without the temperature induced detuning often associated with microstrip patch elements.

A one-piece composite radome and an aluminum baseplate provide the best combination to endure severe vibration, acoustic noise, and rain-erosion requirements. For platforms such as the AV-8B.

**SPECIFICATIONS FOR: N100-3 SERIES GPS ANTENNA**

<table>
<thead>
<tr>
<th>ELECTRICAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>1227.6 ± 12.0 MHz</td>
</tr>
<tr>
<td></td>
<td>1575.42 ±12.0 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5:1</td>
</tr>
<tr>
<td>Gain</td>
<td>-3.5 dBi over 160° cone</td>
</tr>
<tr>
<td>Polarization</td>
<td>RHCP</td>
</tr>
<tr>
<td>Null Depth</td>
<td>&gt;20 dB</td>
</tr>
<tr>
<td>Radiation Pattern</td>
<td>Hemispherical</td>
</tr>
<tr>
<td>Power Handling</td>
<td>Receive Only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MECHANICAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.0 lbs max</td>
</tr>
<tr>
<td>Military</td>
<td>MIL-E-5400</td>
</tr>
<tr>
<td></td>
<td>MIL-STD-202</td>
</tr>
<tr>
<td></td>
<td>MIL-STD-810</td>
</tr>
<tr>
<td>Finish</td>
<td>White, Gray</td>
</tr>
</tbody>
</table>
N100-3 Series GPS Antenna

INCHES [CENTIMETERS]

Consult with factory for mounting specifications.