The SE77 Series Satellite Communication High Gain Yagi Antenna Systems are designed as the ground antenna link of a ground-to-satellite communication system. The antenna system is designed for rapid deployment (less than three minutes).

In order to ensure ease of mobility of the antenna system, it is configured to be stored in package less than thirty-six (36”) inches long and approximately thirteen and one half (13 1/2”) inches in cross-section.

The C122 antenna consists of two yagi arrays which are located 90 degrees from each other and share the same center axis. Each array consists of five dipoles which have the proper length and spacing ratio required of an efficient yagi array. The C122-3 Series antenna adds three (3) additional dipole sets for increased gain with a minimum weight increase. This element extension is also available as an option under the part number U113-1.

The C122 antenna series provides the extra margin of antenna gain required for secure transmissions.

**SPECIFICATIONS FOR: SE77 SERIES HIGH GAIN YAGI ANTENNA SYSTEM [C122 ANTENNA AND ACCESSORIES]**

<table>
<thead>
<tr>
<th>ELECTRICAL</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>240 – 318 MHz</td>
<td>244 – 272 MHz</td>
<td>290 – 318 MHz</td>
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<tr>
<td>VSWR</td>
<td>1.5:1</td>
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<tr>
<td>Gain</td>
<td>C122-1</td>
<td>C122-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C122-2</td>
<td>C122-2</td>
<td></td>
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<tr>
<td></td>
<td>+9</td>
<td>+9</td>
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<tr>
<td></td>
<td>+12</td>
<td>+12</td>
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</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms</td>
<td></td>
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<tr>
<td>Polarization</td>
<td>Right Hand Circular</td>
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<tr>
<td>Axial Ratio</td>
<td>3 dB max at dB beamwidth</td>
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</tr>
<tr>
<td>Power Handling</td>
<td>Receive Only</td>
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<p>| MECHANICAL |                        |                        |                        |                        |
| Connector  | N Male                 |                        |                        |                        |</p>
<table>
<thead>
<tr>
<th>Weight</th>
<th>Part No./Qty</th>
<th>Antenna/1</th>
<th>Tripod/1</th>
<th>Carry Case/1</th>
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<tbody>
<tr>
<td>34 lbs max</td>
<td>SE77-1/A</td>
<td>C122-1</td>
<td>EM3-1/A</td>
<td>CC1-1</td>
</tr>
<tr>
<td>34 lbs max</td>
<td>SE77-2/A</td>
<td>C122-2</td>
<td>EM3-2/A</td>
<td>CC1-2</td>
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<tr>
<td>37 lbs max</td>
<td>SE77-3-2</td>
<td>C122-3-2</td>
<td>EM3-1/A</td>
<td>CC1-1</td>
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<tr>
<td>37 lbs max</td>
<td>SE77-3-3</td>
<td>C122-3</td>
<td>EM3-2/A</td>
<td>CC1-2</td>
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<tr>
<td>49 lbs max</td>
<td>SE77-4-1</td>
<td>C122-3</td>
<td>EM3-2/A</td>
<td>CC4-1-1</td>
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<tr>
<td>46 lbs max</td>
<td>SE77-5-1</td>
<td>C122-1</td>
<td>EM3-1/A</td>
<td>CC4-1-1</td>
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<tr>
<td>46 lbs max</td>
<td>SE77-6-1</td>
<td>C122-2</td>
<td>EM3-2/A</td>
<td>CC4-1-1</td>
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<tr>
<td>49 lbs max</td>
<td>SE77-7-1</td>
<td>C122-3-2</td>
<td>EM3-1/A</td>
<td>CC4-1-1</td>
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<td>Available Options</td>
<td>CC4-1-1</td>
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<tr>
<td></td>
<td>U113-1</td>
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Available Options

CC4-1-1
U113-1

Hard Carrying Case
Element Extension

All data contained herein is subject to change without notice.
For additional information E-mail: antenna.info@harris.com

1099-339 (M31)
Cleared by OFOISR for Public Release
SE77 Series High Gain YAGI Antenna System
[C122 Antenna and Accessories]

INCHES [CENTIMETERS]

TYPICAL RADIATION
PLANE PATTERN AT 240 MHz

TYPICAL RADIATION
PLANE PATTERN AT 318 MHz

Consult with factory for mounting specifications.