**BUTTON ANTENNAS:**

Haigh-Farr Button antennas are designed for applications where size and weight are critical. Models cover frequencies ranging from UHF to X-Band, and provide the omnidirectional coverage of a monopole in a rugged package. Models 2107, 2207 and 13215 have a filled-in overhead null, and, therefore, provide the added benefit of full hemispherical coverage.

Haigh-Farr Button antennas utilize proven materials and methods of construction, providing a solid package that requires only one “D” hole in the vehicle for mounting. Superb protection is obtained through the use of a high-impact, high-temperature radome, with excellent properties for environments containing moisture and contaminants.

**APPLICATIONS:**

- Data Links, Telemetry, Transponder
- Aircraft
- UAVs
- Helicopters
- Tactical Missiles
- Ships
- Ground-Based Vehicles
- Supersonic aircraft
- Single or Array Implementations with Power Dividers and Cables

**FEATURES:**

- Omni-directional Coverage in Azimuth
- Overhead Null in Elevation Pattern (Most Models)
- Models 2107, 2207, 13215 have the overhead null filled in.
- Frequencies from UHF to X-Band
- Input impedance of 50 Ohms
- Vertical Polarization
- Compatible with high power transponders
- TNC is the standard connector, with SMA options available
- See representative radiation plots on the following page.
- Additional plots available upon request.
- Small, Compact Footprint
- High Impact Radome Material
- Built to Withstand Extreme Shock & Vibration Environments

**HAIGH-FARR CAPABILITIES:**

Haigh-Farr engineers utilize state of the art simulation tools for initial design work, well proven manufacturing techniques and world-class facilities for hardware production, and an abundance of in-house environmental test equipment and RF anechoic chambers for final performance verification of our products. Such design flow has enabled Haigh-Farr to make the most rugged and reliable antennas on the market for over half a century; and if our standard product offerings don’t meet your exact needs, we can leverage off of this experience to design something that will.

Please contact Haigh-Farr today for antenna recommendations to meet your needs of tomorrow.
### PART NUMBERS

<table>
<thead>
<tr>
<th>Band</th>
<th>Button P/N</th>
<th>Frequency Range GHz</th>
<th>VSWR MAX/TYPICAL</th>
<th>Representative Drawing</th>
<th>Height Inches (mm)</th>
<th>Weight (SMA) OZ (grams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHF</td>
<td>6160</td>
<td>.350 – .600†</td>
<td>2.0:1/1.5:1</td>
<td>E</td>
<td>6.30 [160.0]</td>
<td>3.5 [99]</td>
</tr>
<tr>
<td>UHF/L</td>
<td>13120</td>
<td>0.9 – 1.625</td>
<td>2:1/1.75:1</td>
<td>D</td>
<td>2.69 [68.3]</td>
<td>3.0 [85]</td>
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<tr>
<td>L/S</td>
<td>13215*</td>
<td>1.43 – 2.50</td>
<td>2:1/1.5:1</td>
<td>G</td>
<td>1.355 [34.4]</td>
<td>5.1 [144]</td>
</tr>
<tr>
<td>S</td>
<td>3106</td>
<td>2.20 – 2.50</td>
<td>1.5:1/1.25:1</td>
<td>B</td>
<td>1.25 [31.8]</td>
<td>1.3 [37]</td>
</tr>
<tr>
<td>C</td>
<td>2207*</td>
<td>4.40 – 5.00</td>
<td>1.75:1/1.50:1</td>
<td>F</td>
<td>0.63 [16.0]</td>
<td>1.41 [40]</td>
</tr>
<tr>
<td>C</td>
<td>3107-1</td>
<td>4.40 – 5.00</td>
<td>1.5:1/1.25:1</td>
<td>B</td>
<td>0.95 [24.1]</td>
<td>1.0 [29]</td>
</tr>
<tr>
<td>C</td>
<td>2107*</td>
<td>5.40 – 5.90</td>
<td>1.5:1/1.25:1</td>
<td>A</td>
<td>0.48 [12.2]</td>
<td>0.9 [26]</td>
</tr>
<tr>
<td>C</td>
<td>3107</td>
<td>5.40 – 5.90</td>
<td>1.5:1/1.25:1</td>
<td>B</td>
<td>0.75 [19.0]</td>
<td>1.0 [29]</td>
</tr>
<tr>
<td>C</td>
<td>3107S HP</td>
<td>5.40 – 5.90</td>
<td>1.5:1/1.25:1</td>
<td>C</td>
<td>0.95 [24.1]</td>
<td>1.0 [29]</td>
</tr>
<tr>
<td>C/X</td>
<td>3108</td>
<td>5.40 – 9.60</td>
<td>2:1/1.50:1</td>
<td>B</td>
<td>0.75 [19.0]</td>
<td>1.0 [29]</td>
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<tr>
<td>C</td>
<td>3108-1</td>
<td>6.40 – 7.20</td>
<td>1.5:1/1.25:1</td>
<td>B</td>
<td>0.75 [19.0]</td>
<td>1.0 [29]</td>
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<tr>
<td>X</td>
<td>3108-3</td>
<td>8.00 – 10.50</td>
<td>2:1/1.75:1</td>
<td>B</td>
<td>0.75 [19.0]</td>
<td>1.0 [29]</td>
</tr>
</tbody>
</table>

† The center frequency of model 6160 can be set at the factory to any frequency from 350 to 600 MHz. Maximum bandwidth is 50 MHz.

*Models 2107, 2207, and 13215 feature filled-in overhead null

### D-HOLE SPECIFICATION

Note: Please confirm D-Hole recomendation at time of order. The above reflects our standard recomendation, but is subject to change.
The values and information contained in this data sheet are for reference only. They are not intended to nor do they create any warranties, express or implied, including any warranty of merchantability/fitness for a particular purpose. Please consult Haigh-Farr with your specific requirements to assist in choosing the best antenna for your application.
Note: The patterns above were measured with model 3107 mounted on a smooth cylindrical ground plane but are typical of all Button antennas offered. Fins and other protrusions on the vehicle will perturb the radiation pattern. The extent of any perturbations cannot be fully determined until radiation patterns are either calculated or measured on a model of the vehicle. Haigh-Farr offers engineering services, which include the calculation of radiation patterns on a specific vehicle.