

THE WORLD LEADER IN HIGH PERFORMANCE WRAPAROUND™ ANTENNAS.



S-BAND BUTTON ANTENNAS

Haigh-Farr Button antennas were designed for applications where size and weight are critical. Model 3106 covers from 2.2 to 2.5 GHz and provides the omnidirectional coverage of a stub in a ruggedized package.

All Haigh-Farr Button antennas utilize well-proven materials and methods of construction. Superb protection is obtained through the use of a high-impact, high-temperature radome, with excellent properties in environments containing moisture and contaminants found in airborne applications.

Mounting is accomplished through a "D" hole in the vehicle. The antenna is secured using a lock washer and nut with vehicle sealing achieved through an integral O-Ring.



FEATURES

- **Omnidirectional Coverage**
- **Frequencies from 2.2 GHz to 2.5 GHz**
- **L-Band Options Also Available**
- **Ultra Small Footprint**
- **High-Impact Radome Material**
- **Built to Withstand Extreme Shock & Vibration Environments**
- **Simple Installation**

APPLICATIONS

- **Data Links, Telemetry**
- **Tactical Missiles**
- **Micro Aircraft**
- **Aircraft, Helicopters**
- **Missiles**
- **Drones**
- **Small Footprint Applications**

DESIGN CAPABILITY

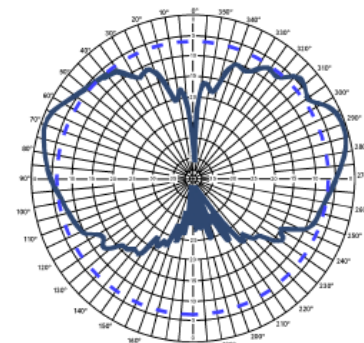
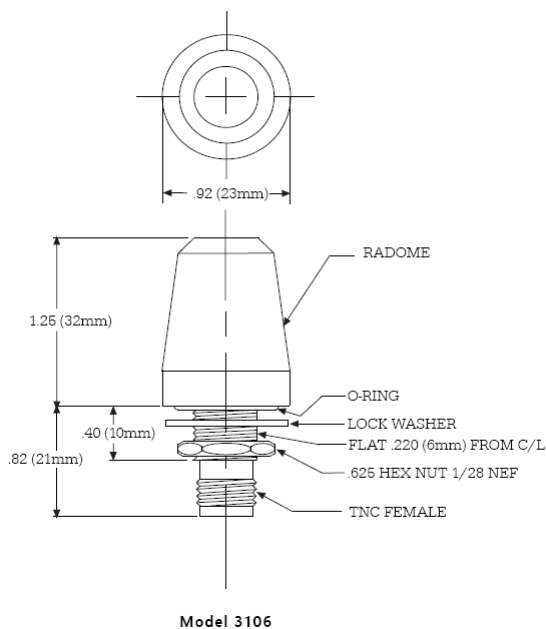
With over 30 years of design history, your antenna configuration/performance requirements may already exist, or extrapolations from similar Haigh-Farr designs may be possible with minimal effort. If a design meeting your requirements does not exist, Haigh-Farr has the experience and modeling capability to customize a solution. Contact Haigh-Farr for a review of your antenna requirements.

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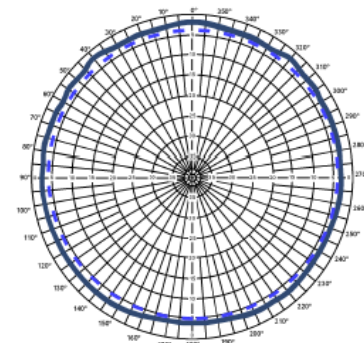
E-mail: sales@haigh-farr.com Web Site: www.haigh-farr.com

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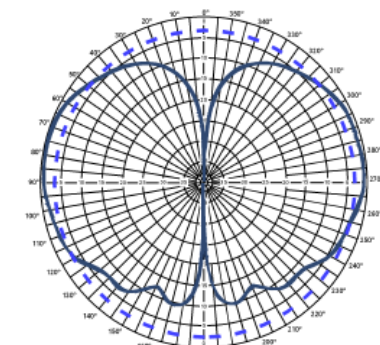
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ANTENNAS.



ELEVATION (PITCH) - 2250 MHz
ISOTROPIC - 6 dB



AZIMUTH (YAW) - 2250 MHz
ISOTROPIC - 4 dB



ROLL - 2250 MHz
ISOTROPIC - 3 dB

TYPICAL SPECIFICATIONS:

ELECTRICAL:

Operating Band:	2.2 - 2.5 GHz
Input Impedance:	50 Ohms
VSWR (Across Band):	1.5:1 Typical 2:1 Max
Polarization:	Vertical
Power:	20W cw
Radiation Pattern¹:	See plots to right
Connector:	TNC Standard

MECHANICAL:

Weight:	1.0 ounce
Dimensions:	See drawing above
Mounting:	Through "D" hole in vehicle and secured using lock washer and nut

ENVIRONMENTAL:

Vibration²:	5 g from 5 to 2,500 Hz
Shock²:	20 g, 10 ms any axis 100 g, 3 ms any axis
Acceleration:	40 g any axis
Temperature:	-85°F to 311°F (-65°C to 155°C)
Humidity:	100% over temperature range
Salt Fog:	MIL-STD-810 Method 509.1 Procedure 1
Altitude:	70,000 feet (21,350 meters)

¹ Radiation patterns are a function of the vehicle shape and size since the vehicle serves as the ground plane for the antenna. The patterns shown were measured on a smooth cylindrical ground plane.

² Typical for this antenna, which has been designed for substantially harsher environments. (Different conditions considered on a case-by-case basis).