



Flexislot™ Antennas Board Beamwidth

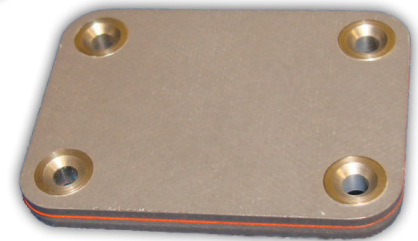
The Haigh-Farr Flexislot™ antenna offers unique mounting capabilities and is designed for simple installation and retrofit on flat, cylindrical and conical shaped bodies. It provides broadbeam E-plane pattern coverage. Designs are available from 300 MHz to 13 GHz.

The Flexislot™ is a building block element and may be arrayed to provide either directive beam shapes or wider spherical coverage. If more than one Flexislot™ is used, the necessary power divider circuitry may be contained within one of the elements or provided as a separate device.

Haigh-Farr also manufactures the necessary cabling to feed multi-element systems. All multi-element configurations are tested as a system, including measuring the radiation pattern.

The Flexislot™ antenna may be either flush mounted or mounted directly to the exterior of the vehicle, and may be secured to the vehicle using mechanical fasteners and/or adhesive bonding agents.

The antenna may be mounted inside a radome for enhanced ruggedization. For high aero-heating applications an ablative heat shield may be added.



FEATURES:

- Hemispherical Coverage
- Designs Covering Discrete Bands from 300 MHz to 13 GHz
- Ultra Small Footprint
- Built to Withstand Extreme Shock & Vibration
- Simple Installation

APPLICATIONS:

- Tactical Missiles
- Aircraft, Helicopters
- Missiles
- Launch Vehicles
- Targets

DESIGN CAPABILITY:

Haigh-Farr has an over 50 year history of designing and producing exceptionally rugged, high-performance antennas. If you don't find an antenna meeting your requirements in our standard list of products, Haigh-Farr has the experience and modeling capability to customize a solution. Adaptations of existing designs can be done with very short lead times.

Contact Haigh-Farr for a review of your antenna requirements.

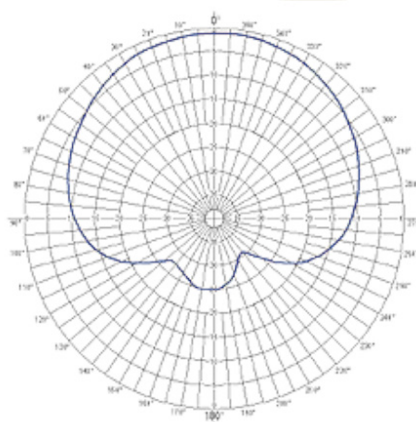


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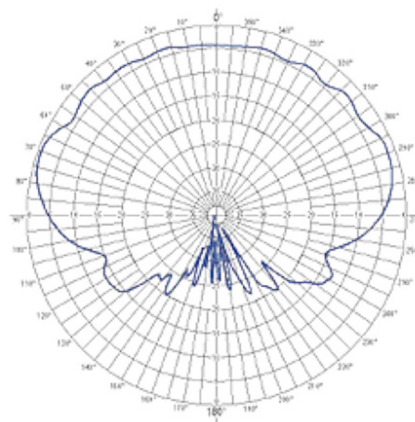
TYPICAL SPECIFICATIONS:

Operating Band:	300 MHz to 13 GHz
Input Impedance:	50 Ohms
Bandwidth:	Design parameter, 1% - 5%
VSWR (Across Band):	2:1 Max across Band
Power:	40 W cw, 5kW peak
Polarization:	Linear
Radiation Pattern*:	See plots below
Connector:	SMA standard, other connector options available including direct cable feeds
Weight:	Function of electrical requirements 1.0 ounces (28g), basic S-Band antenna Design parameter
Dimensions:	Basic S-Band antenna dimensions: Width: 2.0" (51 mm) Length: 2.8" (71 mm) Thickness: .10" (2.5 mm)
Mounting Surface:	Antenna is flexible and manufactured to naturally mate with specific cylindrical, conical or flat surface
Securing:	Screw and/or Bond
Altitude:	Any
Environment:	Design parameter, typical of tactical supersonic missiles and kinetic kill weapons

*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 typical smooth cylindrical ground plane.



ROLL - 1485 MHz
ISOTROPIC - 6 dB



PITCH - 1485 MHz
ISOTROPIC - 9 dB