FRF-281

Features

- Efficient very wideband blade antenna
- Omnidirectional coverage, peak near horizon
- Radome qualified to MIL-STD-810G for supersonic aircraft
- Integral rain erosion strip
- High power handling
- Low drag

Applications

- Airborne next genreation datalinks and signals collection
- Suitable for crewed or uncrewed aircraft
- Antenna can be repackaged into other radome and mounting flange configurations (delta qualification may be needed)

Performance Summary

Size	2.6″ × 5.4″ × 1.8″
Weight	<0.4 lbs
Connector	TNC Female
Mounting	Four #10-32 screws

Frequency	700-6000 MHz
Gain	>-3 dBi horizon / 0-3 dBi Peak
VSWR	<3.0:1
Polarization	Vertical
Altitude	-1300 to 70000 ft
Lightning	Zone 1A
Vibration / Shock:	22 Grms / 60 Gs

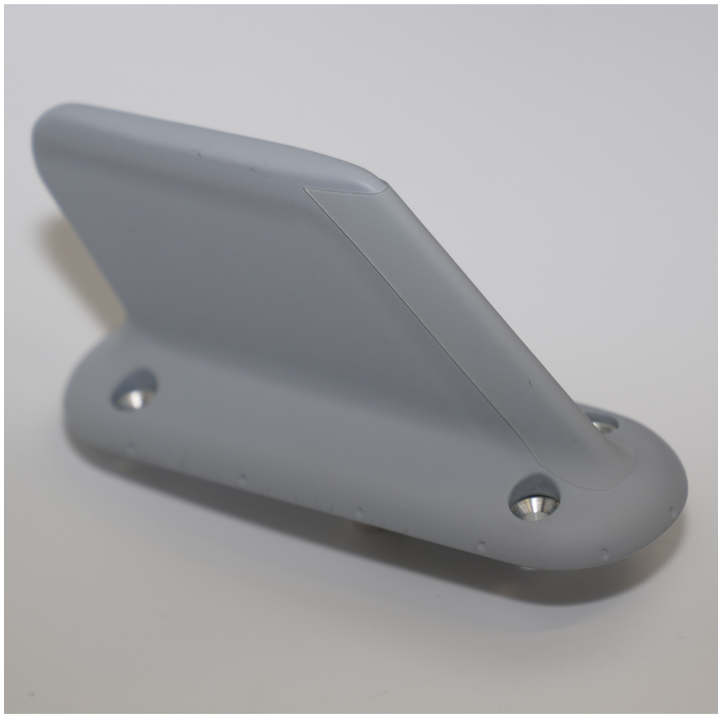

Figure 1. FRF-281 wideband blade antenna

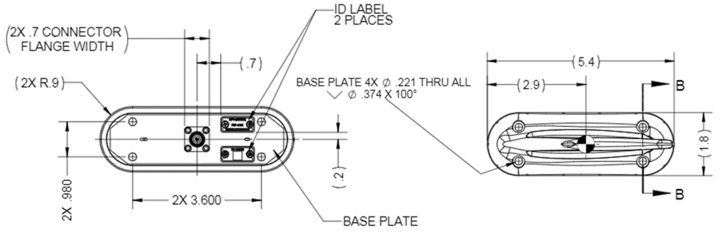

Figure 2. Mounting Flange ICD

General Description

The FRF-281 wideband blade is designed for the twin demands of top-tier performance and unwavering reliability needed for crewed tactical aircraft, including supersonic fighters. This antenna uses a qualified radome leveraged from other production antennas, combined with an innovative wideband radiator to support the needs of next generation waveform bandwidths or multiband/multi-waveform configurations.

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