



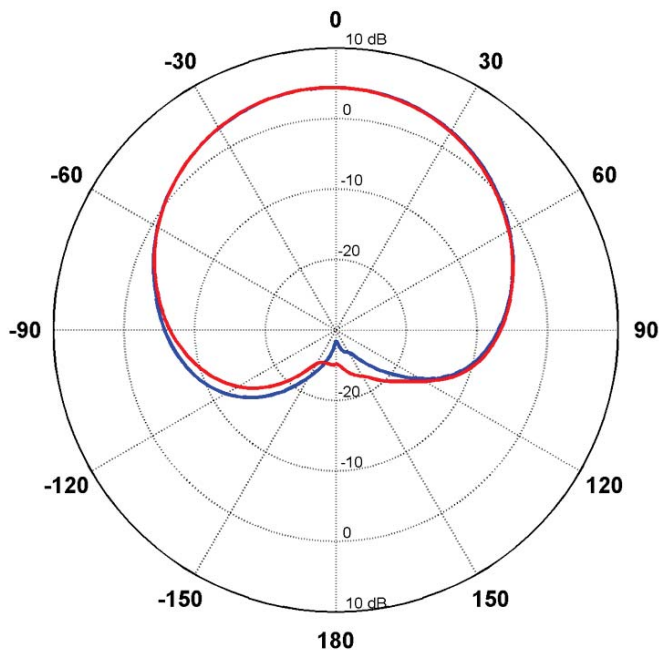
FRF-175

DATA SHEET

Description:

The FIRST RF Corporation FRF-175 antenna is a high-gain, conformal UHF communications antenna. The antenna is tailored to provide complete transmit and receive coverage for legacy UHF SATCOM systems, and a future revision will incorporate next-generation UHF SATCOM as well. The antenna is available in a dual-linear polarized configuration for terrestrial comms as well. Additionally, this product provides substantially higher levels of platform-independence and interference mitigation for advanced integration.

RF Performance Overview:



FRF-175 typical elevation circularly polarized far-field pattern.



FRF-175

Antenna Information:

Frequency Band: 240-320MHz
Typical Gain: +3dBi
VSWR: 2:1
Power Handling: 100W CW
Connector: N-Type or TNC

Environmental:

Designed to exceed MIL-STD-810F
Temperature: -40 to +65°C Operational

Mechanical Overview:

Height: 2.5"
Maximum Footprint: 16.5"×16.5"
Nominal Antenna Weight: <5lbs.
Radome: Electrically Insulated to 10kV rms