

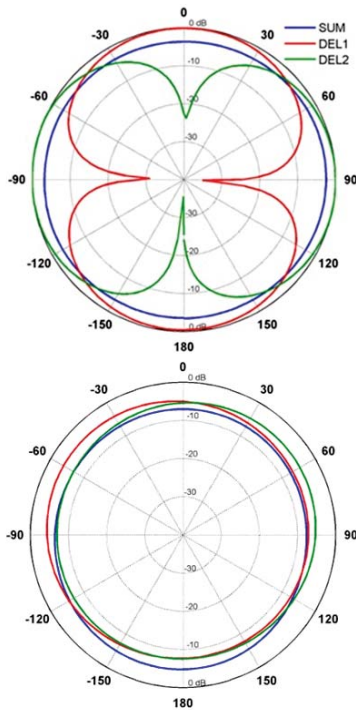


FRF-177 DATA SHEET

Description:

The FIRST RF Corporation FRF-177 antenna is a broadband, lightweight, low-profile, man-portable direction-finding antenna. This antenna provides an alternative to conventional DF arrays, which are typically bulky, heavy and relatively narrowband. With its reduced mass and volume, the FRF-177 enables broadband man-portable DF capabilities once only thought possible with large fixed-site arrays. This product is available in a variety of configurations, providing different interface options and supporting different DF techniques.

RF Performance Overview:



Typical Radiation Patterns
Azimuth Pattern Cut (0° Elevation)
Top: FRF-177-501 and FRF-177-503
Bottom: FRF-177-505 and FRF-177-506



FRF-177 - Low Profile Man-Portable DF Antenna System and
Typical Installation Configuration

Antenna Information:

Nominal Impedance: 50 Ohms
Polarization: Vertical

Environmental:

Designed to exceed MIL-STD-810F
Temperature: -40-+71°C Operational

Mechanical Overview:

Available Configurations:

- 501: Switched Sin, Cos, Omni
 - o 1 x SMA female
 - o 2 x Digital control
- 502: Switched Cardioids
 - o 1 x SMA female
 - o 2 x Digital control
- 503: Fixed Omni, Switched Sin, Cos
 - o 2 x SMA female
 - o 1 x Digital control
- 504: Three Port
 - o Fixed Omni, Sin, Cos
 - o 3 x SMA Female
- 505: Three Port – Individual Elements
- 506: Three Port – Individual Elements, Reduced Form-Factor

Physical Dimensions: Varies by configuration

Typical Antenna Weight: < 0.5 lbs.