

FRF-177 SERIES DATA SHEET

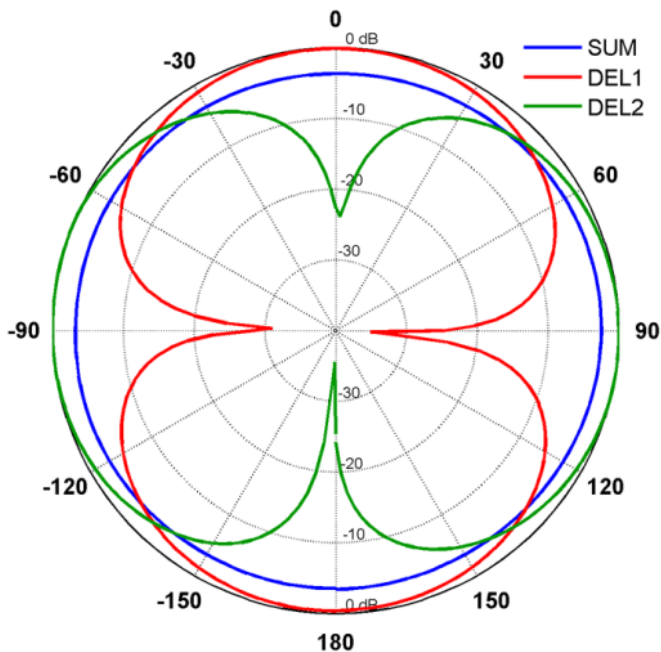
Description:

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 array, which is typically bulky, heavy and relatively narrowband. With its drastically 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 four configurations, allowing a choice of single-port, dual-port, and triple port operation.

RF Performance Overview:

Typical Radiation Patterns

Azimuth Pattern Cut (0° Elevation)



Nominal Impedance: 50 Ohms
Power Handling: 250mW CW
Polarization: Vertical



FRF-177 - Low Profile, Man-Portable DF Antenna Series

Environmental:

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

Mechanical Overview:

Ordering Options/Connectors:

- 501: Switched Sin, Cos, Omni
 - 1 x SMA female
 - 2 x Digital control
- 502: Switched Cardioids
 - 1 x SMA female
 - 2 x Digital control
- 503: Fixed Omni, Switched Sin, Cos
 - 2 x SMA female
 - 1 x Digital control
- 504: Three Port
 - Fixed Omni, Sin, Cos
 - 3 x SMA Female

Physical Dimensions:

- Diameter: 2.4"
- Height: 8.1"

Antenna Weight: 7.2 oz (0.45 lbs)

Vehicle-, shoulder-, and back-pack- mounts available. Also available with removable handle for hand-held applications.