

FRF-170 SERIES DATA SHEET

Description:

The FIRST RF Corporation FRF-170 antenna system is a Ku band phased array system designed for high data rate communications links. The first systems are targeted towards half-duplex networking waveforms, with full-duplex capability in development

The array system is capable of near instantaneous beam steering anywhere in the 360° azimuth field of view. The directive beam supports high EIRP and G/T while enabling frequency re-use in a dense communications environment.

The FRF-170 array module contains two array faces with a combined coverage of >180° in azimuth. Two modules can be arranged centrally or distributed on the platform to provide full 360° coverage.

Performance Features:

Elevation Coverage: -10 to +90°

360° Azimuth Coverage in 4 overlapping sectors

Half Duplex TDMA operation

Fast beam switching time

Lightweight

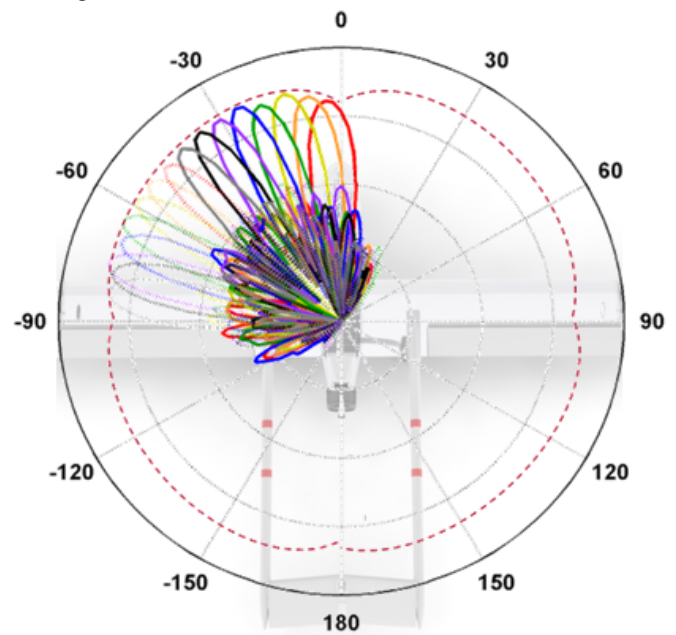
Power management at the RF device level



FRF-170 Antenna Series



Designed for the environments and capacity of the Shadow 200 RQ-7B



Measured patterns for one array quadrant