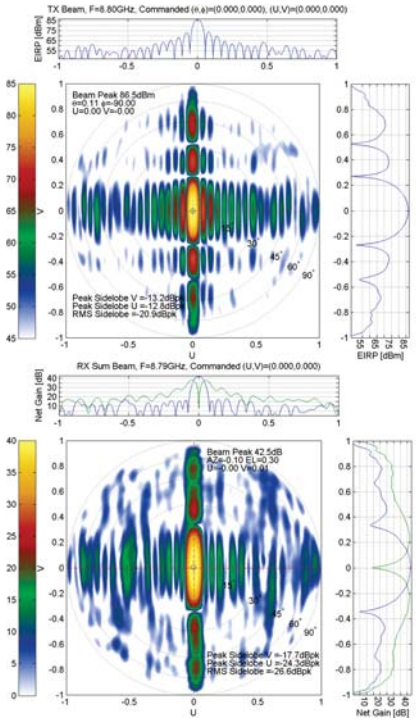
FRF-240 X-Band AESA for RADAR

DATA SHEET

Description:

The FRF-240 is a full-featured active electronically scanned array designed specifically for monopulse RADAR applications. It provides >640W of net radiated power with a maximum pulse duty factor of 16% and prime power consumption of 900W. Includes a low-power standby mode of 50W with 1msec wake-up time.
Steering latency of 100us, and transmit/receive switching time of <350us. Calibration paths are built in for monopulse network and reciever channel compensation.

RF Performance Overview:



Detailed RF performance data available upon request

FRF-240 X-Band AESA

Antenna Information:

Integrated Monopulse mode former
Frequency Band: 8.75-9.5GHz
Beamwidth: 5° Azimuth, 16.5° Elevation
Scan volume: >±60° Azimuth, ±45° Elevation
TX Peak Power: ~700W
RX Gain: >27 dBi (typ)
RX Sidelobes: -25dBc (typ)
Polarization: Vertical
TX Pulse Width: <100usec
Prime Power: 900W @ 28V nominal

Environmental:

Designed for airborne applications per DO-160, MIL-STD-461, and MIL-STD-704.
Operational Temperature: -40 to +60°C
Ambient air cooled

Mechanical Overview:

Height: 6.5"
Width: 25.5"
Length: 7.1"
Weight: 32 lbs

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