High Power Directional Spiral Antenna Range



Cobham Antenna Systems

The most important thing we build is trust



High Power Spiral Antenna Range

Cobham Antenna Systems has created a new range of high power, directional spiral antennas which can be used for Electronic Warfare (EW), cellular counter-measures and multi-band communications.

This range has been designed for transmit applications and compliments our existing range of traditional printed circuit board, cavity-backed spiral antennas which are used in receive only counter-measure, direction finding applications.

Key Features

- High Power
- High Gain
- Circular Polarisation
- Low Profile
- Rugged

Testing

A wide variety of tests has been conducted to ensure the efficiency of the new high power spiral antennas including high power testing and simulation up to 150W, thermal analysis, low pressure air analysis, vibration and temperature analysis.

HIGH POWER DIRECTIONAL SPIRAL ANTENNAS

Part Number	Frequency GHz	Gain dBiC	Beamw Az	vidth ° El	Polarisation	Size mm	Connector	Power W
FPA7-0.6-6.0R/2294	0.60 - 6.00	2 - 9	70	70	Right Circular	47x322Ø	N(F)	20
FPA-0.7-2.7R/2319	0.50 - 3.00	5 - 10	60	60	Right Circular	189x507Ø	7/16"(F)	150
FPA7-1.7-6.0R/2293	1.70 - 6.00	6 - 9	70	70	Right Circular	89x138Ø	N(F)	100
FPA7-2.0-6.0R-HP/2231	2.00 - 6.00	4 - 8	70	70	Right Circular	90x138Ø	N(F)	100



Patterns

The graphics below show the FPA-0.7-2.7R/2319 Azimuth, Elevation and 3D radiation patterns and plots at centre frequency. The patterns show demonstrate consistency with high peak gain.







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