Omnidirectional Antenna

CRF-OA-400M6000M0-9dBi

Frequency Range
400 – 6,000 MHz

Rated Output Power
250 W

Connector
N-J

Package Size
Φ90 × 240 mm

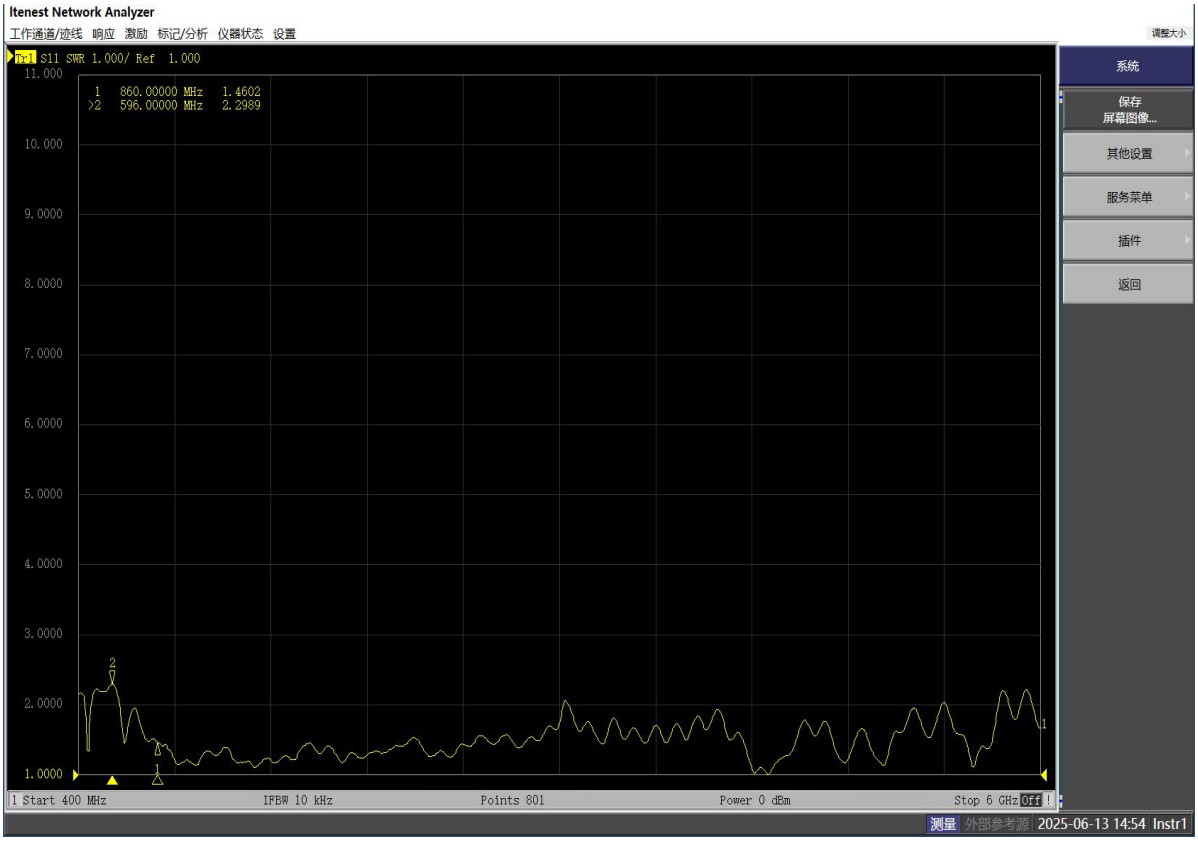
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		400 – 6,000 MHz		
Gain	0		9	dBi
Half-Power Beamwidth		H-Plane: – E-Plane: 122.19°		
VSWR			< 2.0	
Impedance		50		Ω
Polarization		Vertical		
Power, Max.			250	W
Connector		N-J		
Cable		No Cable		
Element Material		Copper		
Radome Material		Nylon		
Connector Placement		Bottom		
Dimensions		Φ90 × 240 mm (Flange Φ145 mm)		
Weight		≈ 1		kg
Operating Temperature	-40		+65	°C
Storage Temperature	-40		+80	°C
Mounting		Flange Mount		
Application		Outdoor / fixed installation / system integration		
Notes		Representative data from uploaded test report		

Typical Performance Curve

Representative VSWR measurement and uploaded test data retained for the corresponding model.



Curve note: Original uploaded VSWR screenshot retained. Pattern plots and gain / efficiency data are available for project review.

Applications Outdoor RF coverage / communication / system integration	Customization Custom frequency bands, connector, cable, radome color and mounting details are available. CorelixRF engineering team can provide feasibility reviews within 48 hours.

Compliance / Quality Framework

RoHS Compliant	CE / FCC	ISO 9001	GJB 9001C

Test data and pattern files can be supplied for project review where applicable.

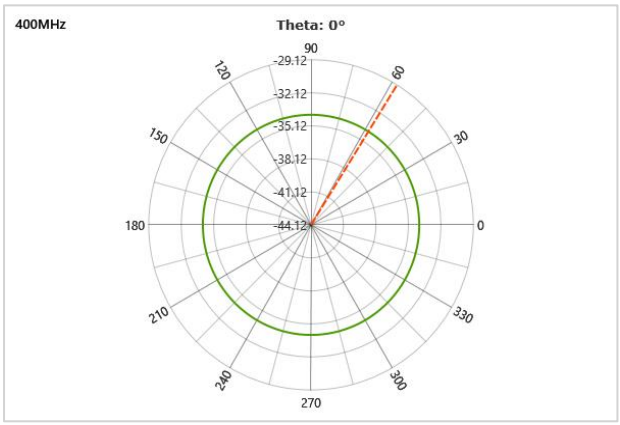
Product Sample and Placement



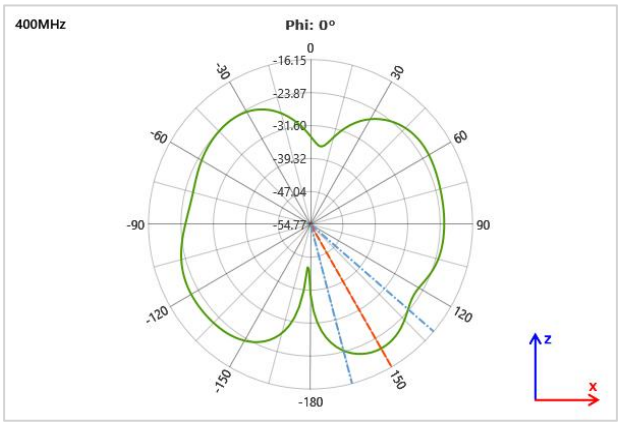
Model	Package Size	Weight
CRF-OA-400M6G0-9dBi	Φ90 × 240 mm Flange: Φ145 mm	≈ 1 kg
Connector Reference	**Materials**	**Release Note**
Connector: N-J Placement: Bottom Polarization: Vertical	Element: Copper Radome: Nylon Cable: No Cable	Product sample image is kept visible for easier installation reference and project review.

Measured Patterns (400-6000GHz)

Horizontal & Vertical Pattern (400MHz)



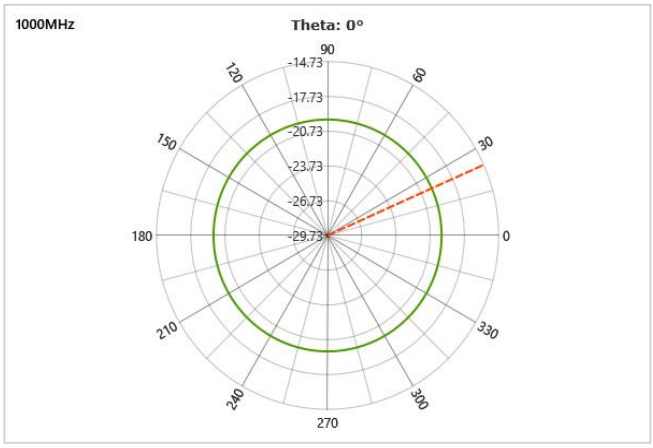
Horizontal Pattern at F=400MHz



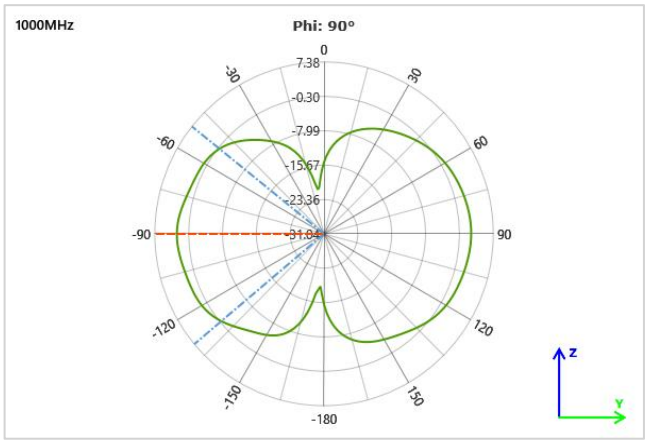
Vertical Pattern at F=400MHz

Measured Patterns (400-6000GHz)

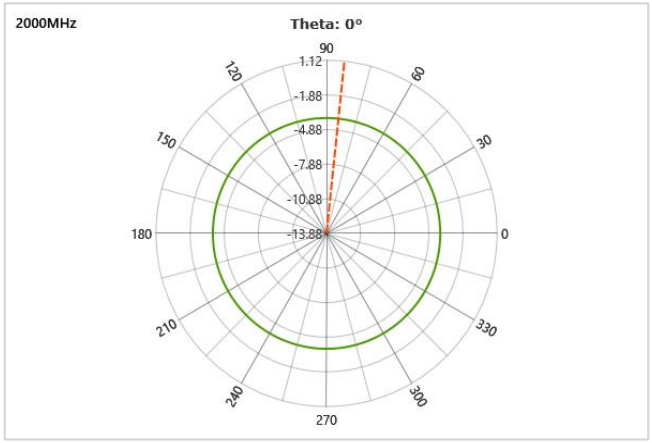
Horizontal & Vertical Pattern (1000/2000/3000MHz)



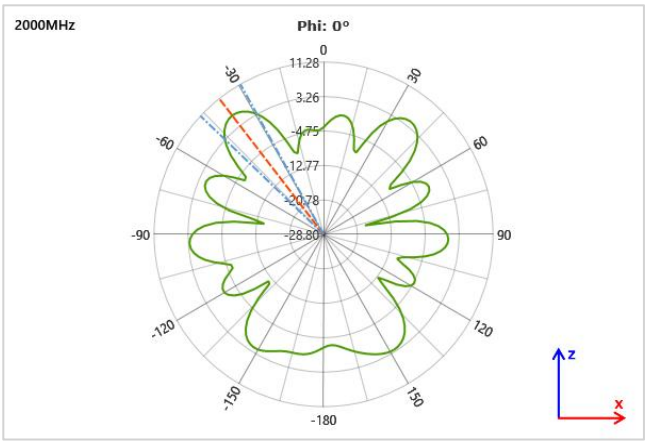
Horizontal Pattern at F=1000MHz



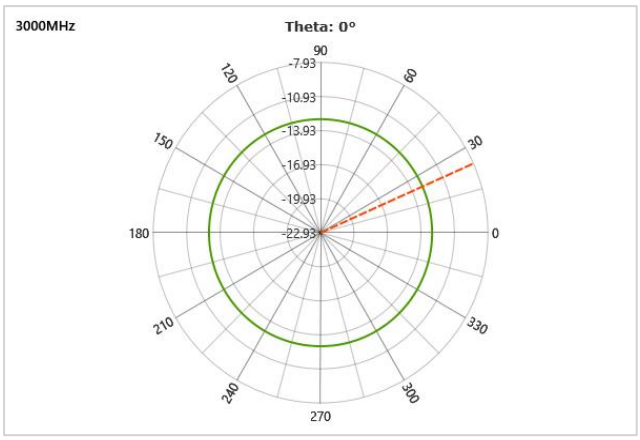
Vertical Pattern at F=1000MHz



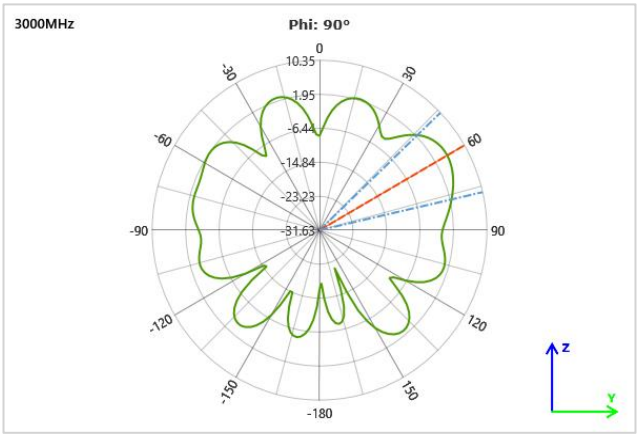
Horizontal Pattern at F=2000MHz



Vertical Pattern at F=2000MHz



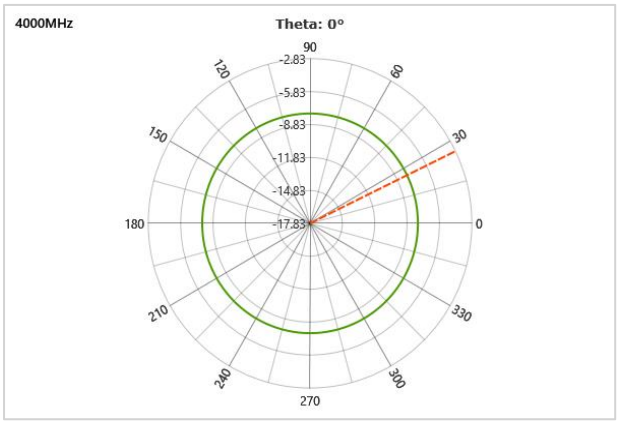
Horizontal Pattern at F=3000MHz



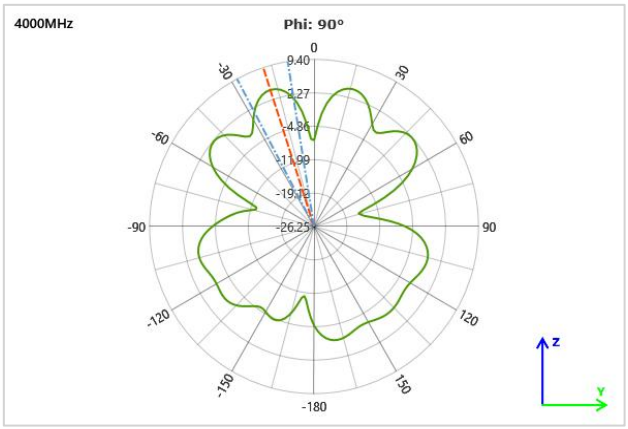
Vertical Pattern at F=3000MHz

Measured Patterns (400-6000GHz)

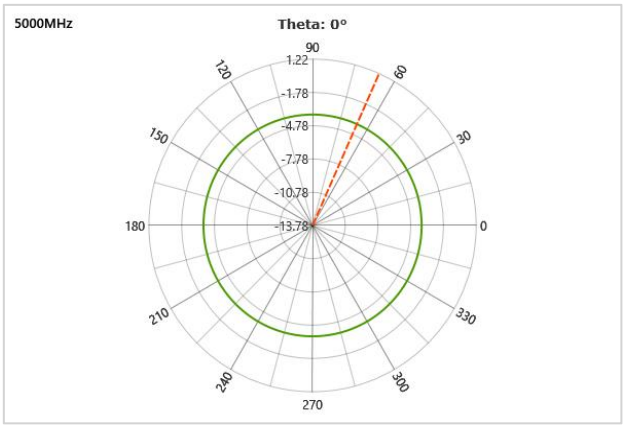
Horizontal & Vertical Pattern (4000/5000/6000MHz)



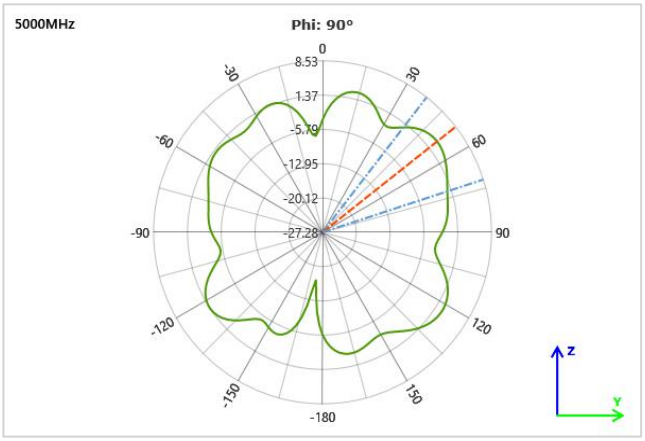
Horizontal Pattern at F=4000MHz



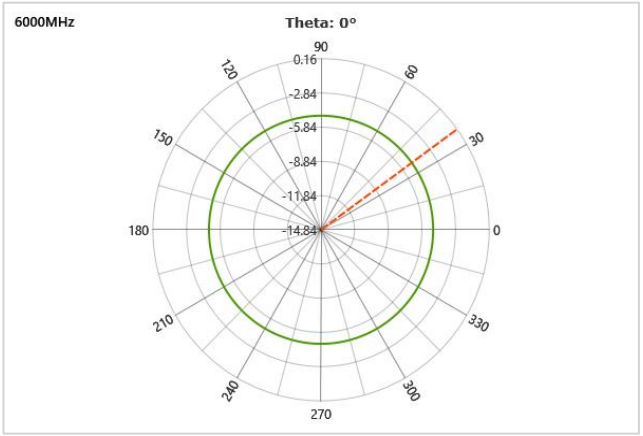
Vertical Pattern at F=4000MHz



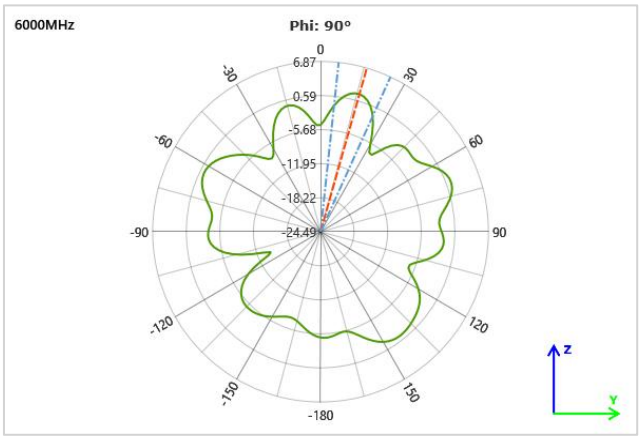
Horizontal Pattern at F=5000MHz



Vertical Pattern at F=5000MHz



Horizontal Pattern at F=6000MHz



Vertical Pattern at F=6000MHz