Omnidirectional Antenna

CRF-OA-1420M1580M-8.16-9.56dBi

Frequency Range
1,420 – 1,580 MHz

Rated Output Power
50 W

Connector
N-J

Package Size
Φ25 × 600 mm

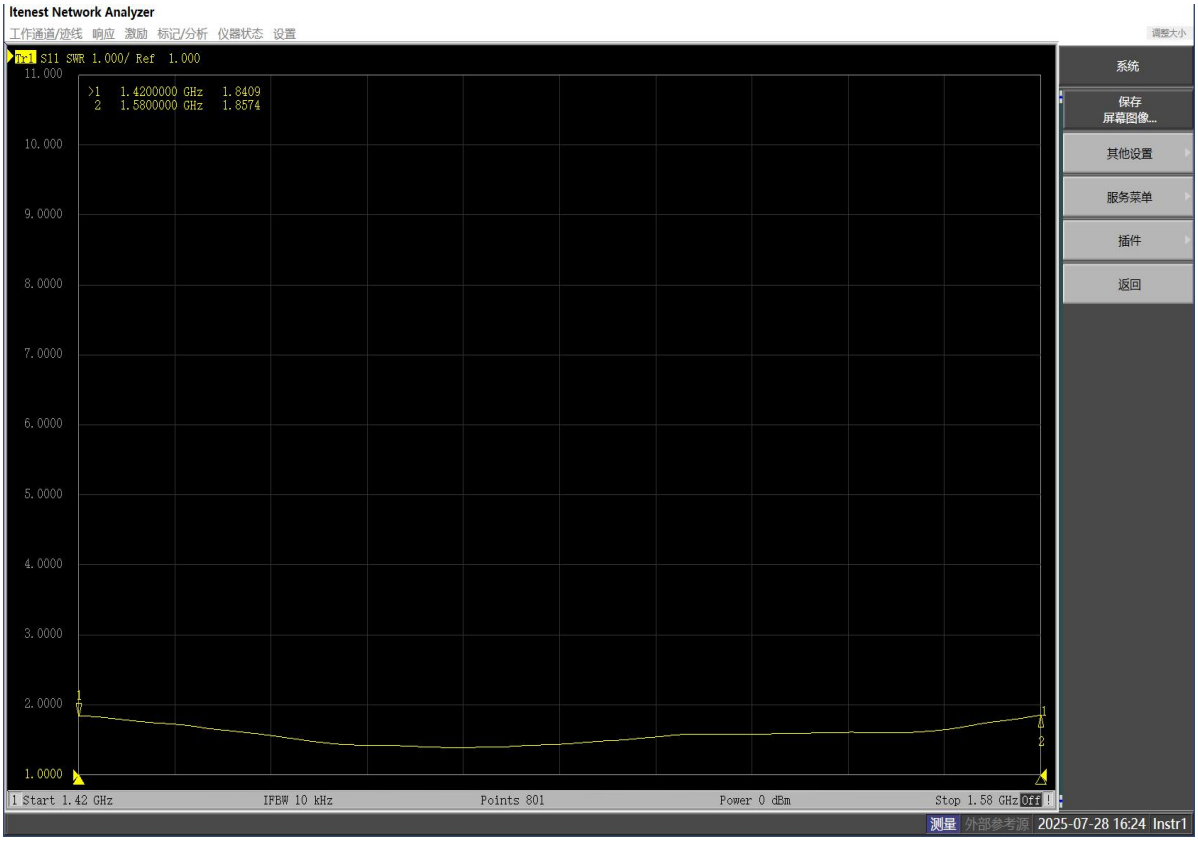
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		1,420 – 1,580 MHz		
Gain	8.16		9.56	dBi
Half-Power Beamwidth		H-Plane: 360° E-Plane: 18.35°		
VSWR			< 2.0	
Impedance		50		Ω
Polarization		Vertical		
Power, Max.			50	W
Connector		N-J		
Cable		No Cable		
Element Material		Copper		
Radome Material		Fiberglass		
Connector Placement		Bottom		
Dimensions		Φ25 × 600 mm		
Weight		≈ 1		kg
Operating Temperature	-40		+65	°C
Storage Temperature	-40		+80	°C
Mounting		Clamp 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.

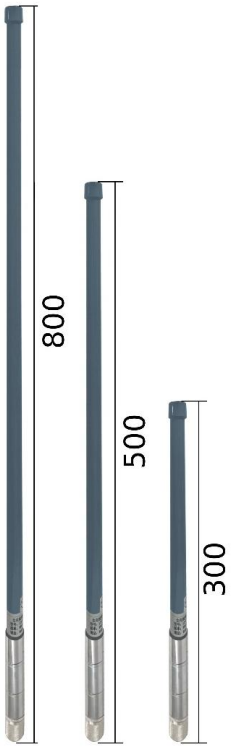
Applications Outdoor RF coverage / communication / system integration	Customization Custom frequency bands, connector, cable, radome color and mounting details are available. CorelixRF engineering team can provide feasibility reviews within 48 hours.

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



Brace type

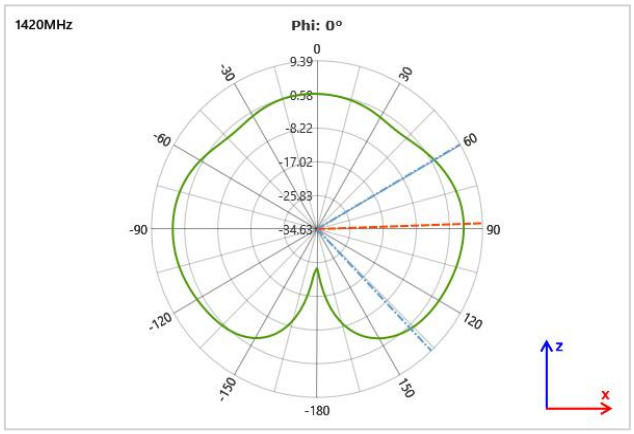


Clutch-type supporting fixture

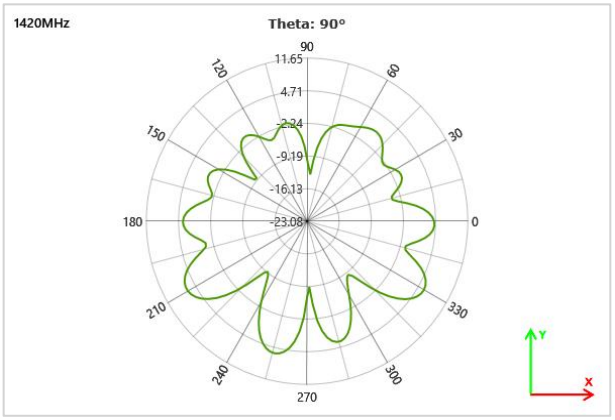
Model CRF-OA-1420M1580-8.16-9.56dBi	**Package Size** Φ25 × 600 mm	**Weight** ≈ 1 kg
Connector Reference Connector: N-J Placement: Bottom Polarization: Vertical	**Materials** Element: Copper Radome: Fiberglass Cable: No Cable	**Release Note** Product sample image is kept visible for easier installation reference and project review.

Measured Patterns (1420-1580GHz)

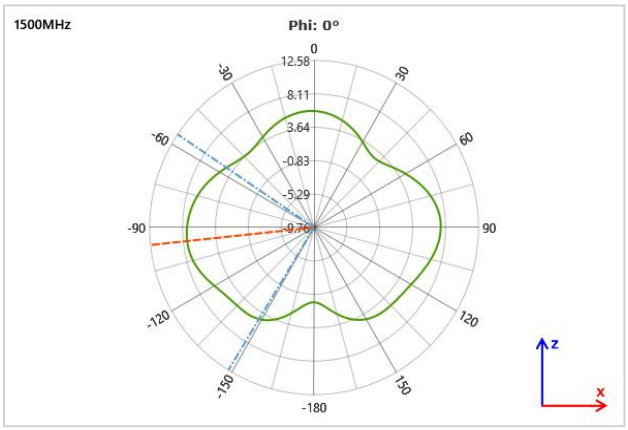
Horizontal & Vertical Pattern (1420/1500/1580MHz)



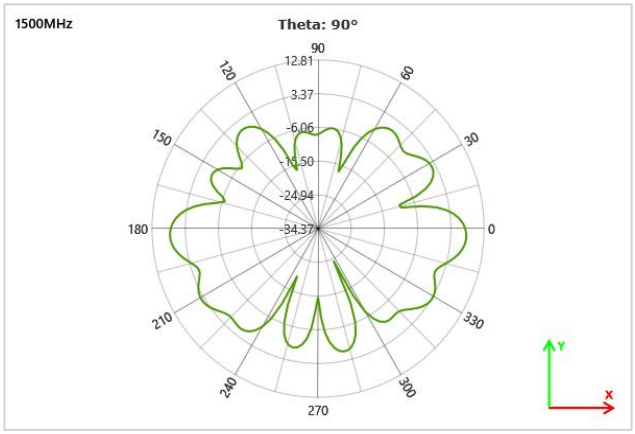
Horizontal Pattern at F=1420MHz



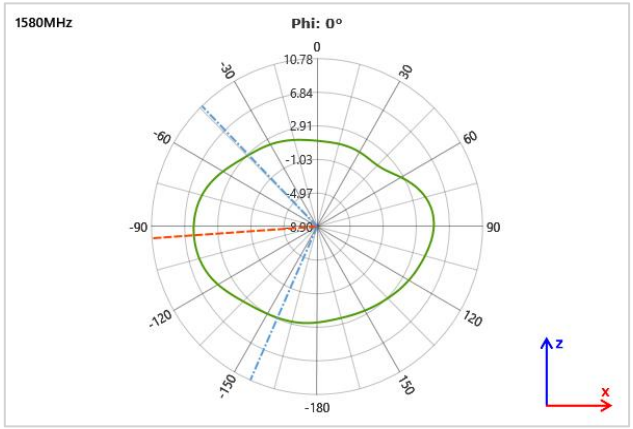
Vertical Pattern at F=1420MHz



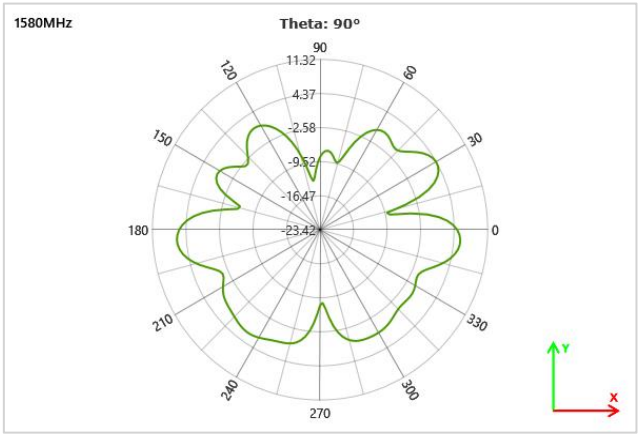
Horizontal Pattern at F=1500MHz



Vertical Pattern at F=1500MHz



Horizontal Pattern at F=1580MHz



Vertical Pattern at F=1580MHz