Omnidirectional Antenna

CRF-OA-430M440M-3dBi

Frequency Range
430 – 440 MHz

Rated Output Power
50 W

Connector
N-J

Package Size
Φ20 – Φ32 × 600 mm

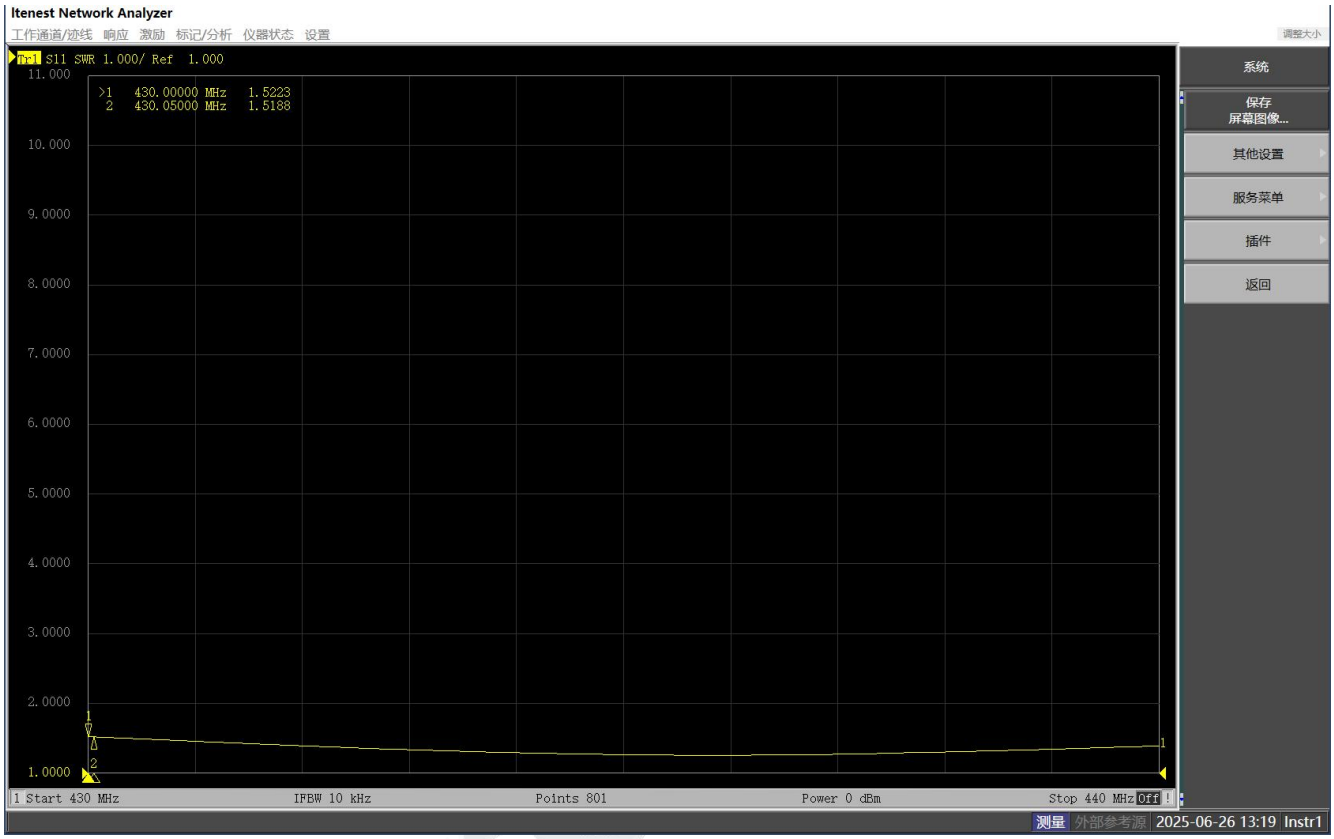
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		430 – 440 MHz		
Gain		3		dBi
Half-Power Beamwidth		H-Plane: – E-Plane: 116.8°		
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		Φ20 – Φ32 × 600 mm		
Weight		≈ 2		kg
Operating Temperature	-40		+65	°C
Storage Temperature	-40		+80	°C
Mounting		Optional mount styles		
Application		Outdoor / fixed installation / communication 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	Customization
Outdoor RF coverage / communication / fixed installation	Custom connector, mounting structure, radome details and integration options are available. CorelixRF engineering team can provide feasibility reviews within 48 hours.

Compliance / Quality Framework

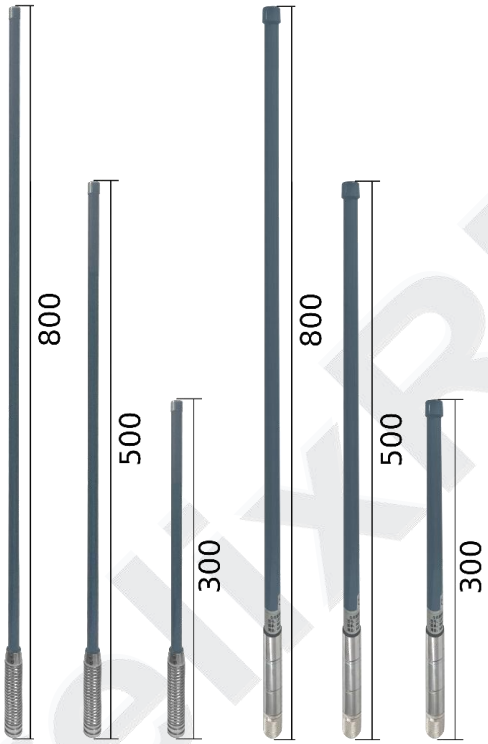
RoHS Compliant	CE / FCC	ISO 9001	GJB 9001C

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

Product Sample and Placement



Flange type



Collision-resistant spring type

Brace type



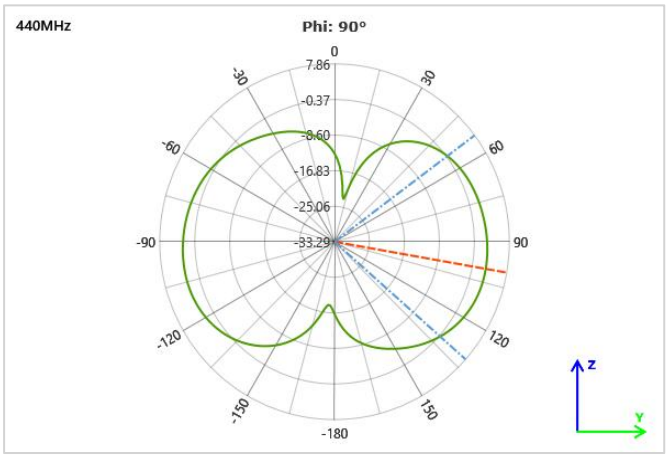
Clutch-type supporting fixture

Model CRF-OA-430M440-3dBi	**Package Size** Φ20 - Φ32 × 600 mm	**Weight** ≈ 2 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.

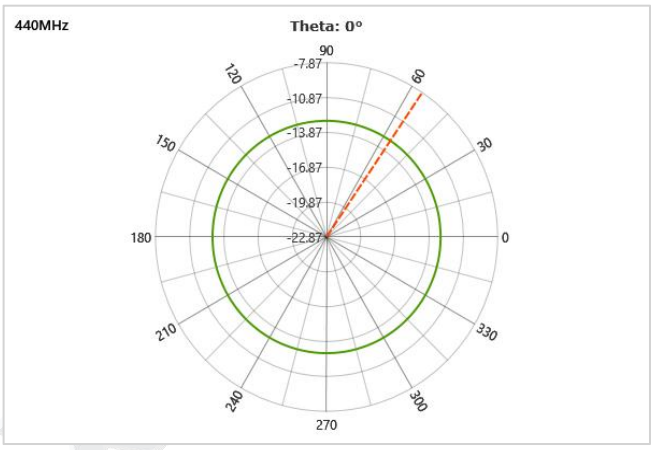
CorelixRF

Measured Patterns (433 MHz)

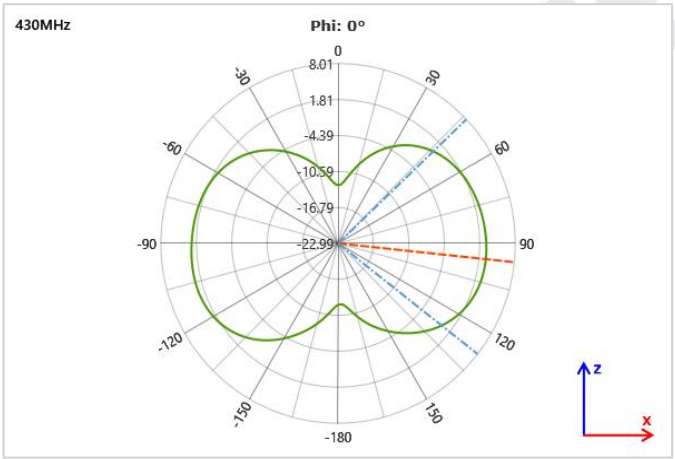
Horizontal & Vertical Pattern (430 MHz / 440 MHz)



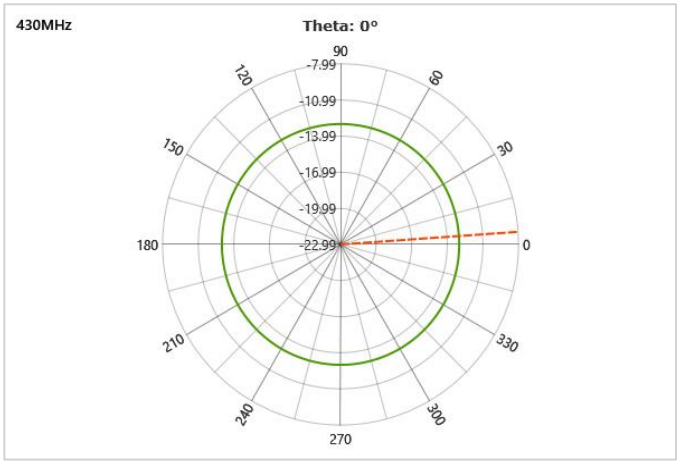
Horizontal Pattern at F=440MHz



Vertical Pattern at F=440MHz



Horizontal Pattern at F=430MHz



Vertical Pattern at F=430MHz