

Conical Dual Polarized Horn Antenna
2-8 GHz Frequency Range, 13 dBi Typ. Gain



Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA28-13

Features

- Coaxial Adapter for RF Inputs
- Low VSWR
- Broadband Operation
- Dual Linear Polarized

Descriptions

RF MISO's **Model RM-CDPHA28-13** is a dual polarized horn antenna that operates from 2 to 8GHz, The antenna offers 13 dBi typical gain. The antenna VSWR is 1.5:1 typical. The antenna cross polarization isolation is typical 50 dB and port isolation is 30 dB. It can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

Specifications

RM-CDPHA28-13		
Parameters	Typical	Units
Frequency Range	2-8	GHz
Gain	13 Typ.	dBi
VSWR	1.5 Typ.	
Polarization	Dual Linear	
Cross Polarization Isolation	50 Typ.	dB
Port Isolation	30	dB
Connector	SMA/N-Female	
Finishing	Paint	
Size (L*W*H)	Ø245.50*282.9	mm
Weight	1.179	kg
Power Handling, CW	50	W
Power Handling, Peak	100	W

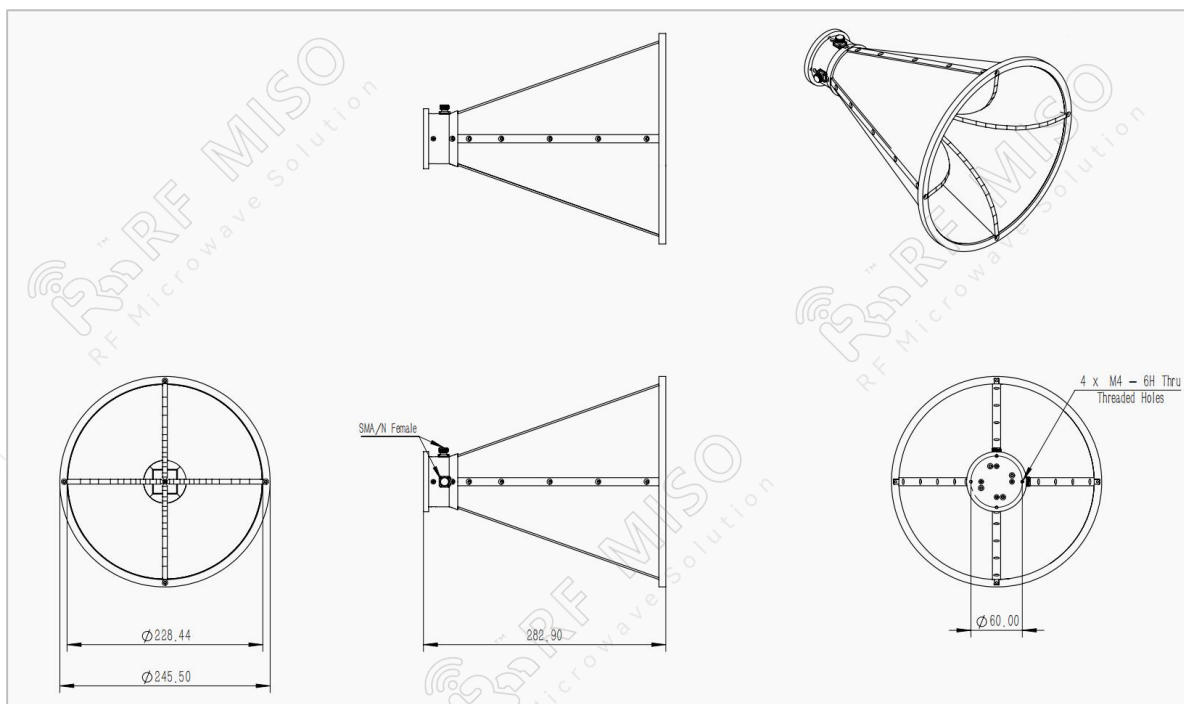
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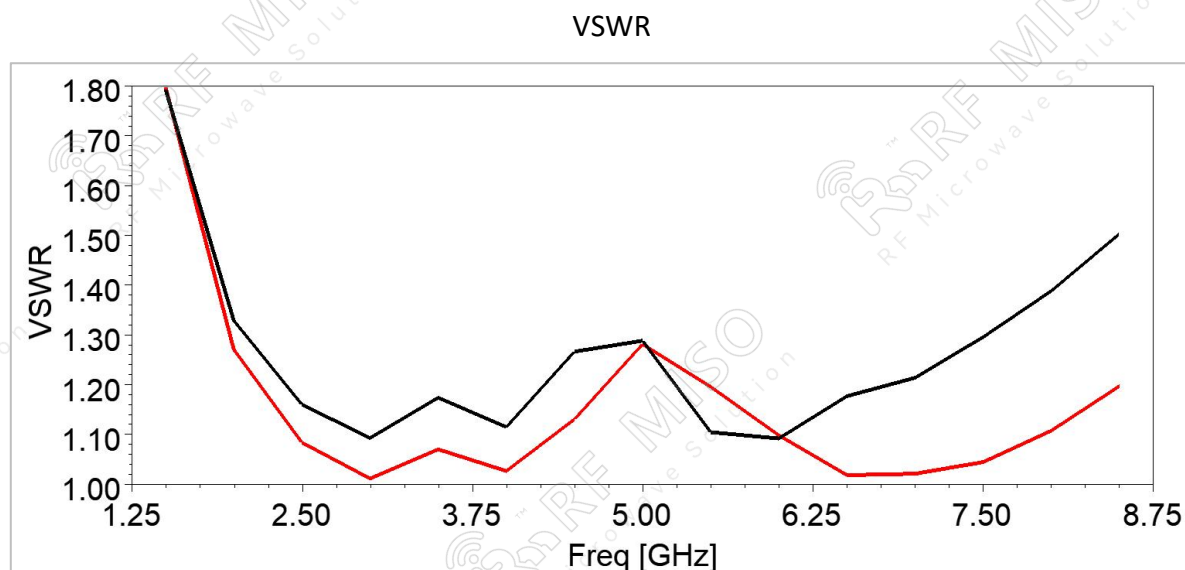
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Outline Drawing



Simulated Results



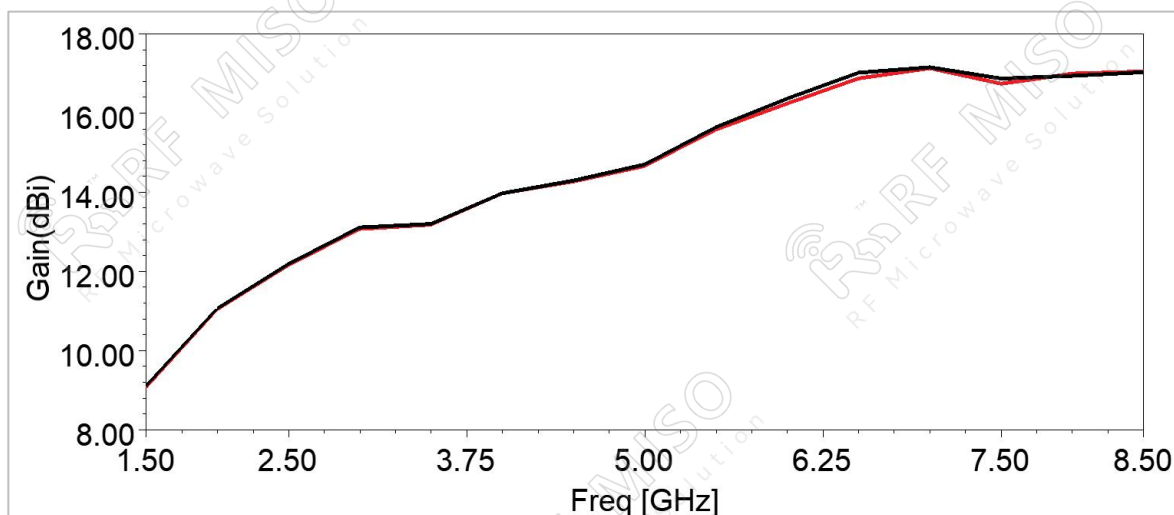
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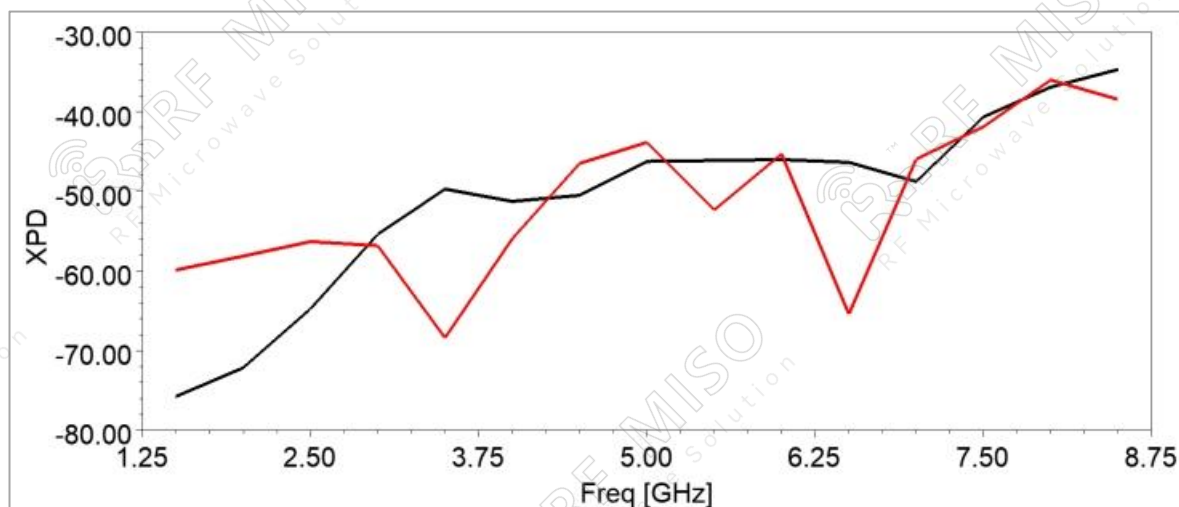
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Cross Polarization



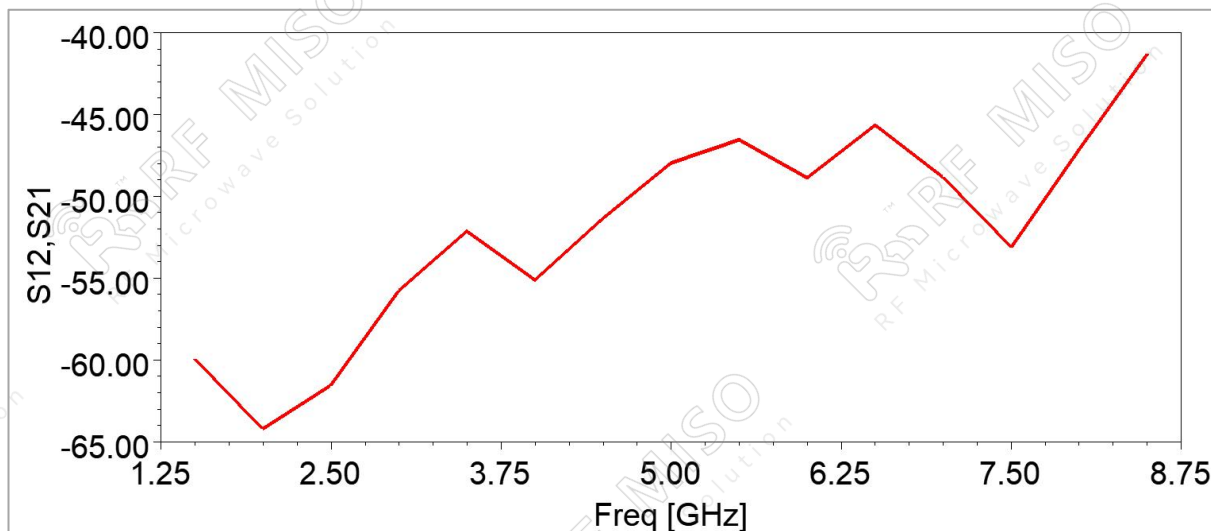


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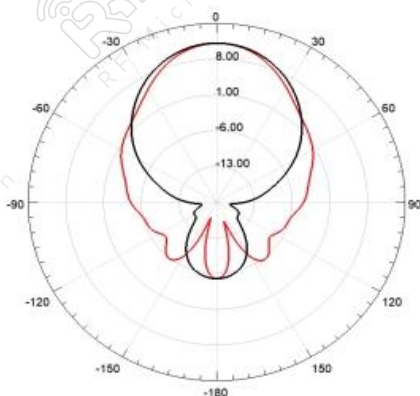
Port Isolation



Pattern

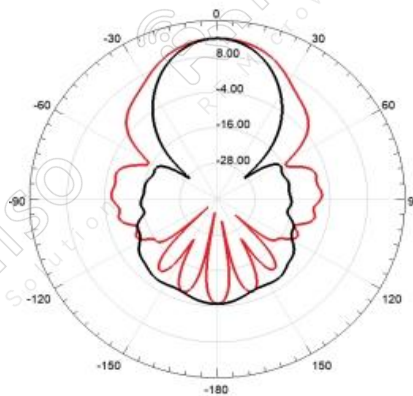
Port 1: 2GHz

3dB beamwidth(deg): H plane: 50, E-plane: 42



Port 1: 4GHz

3dB beamwidth(deg): H plane: 27.5, E plane: 37.5





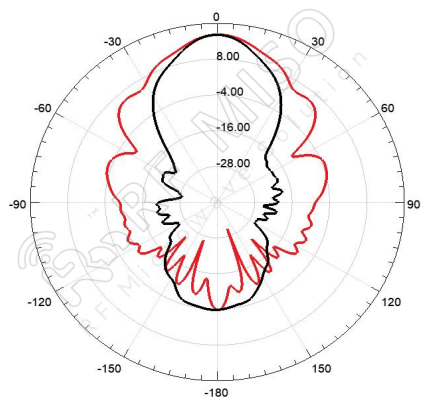
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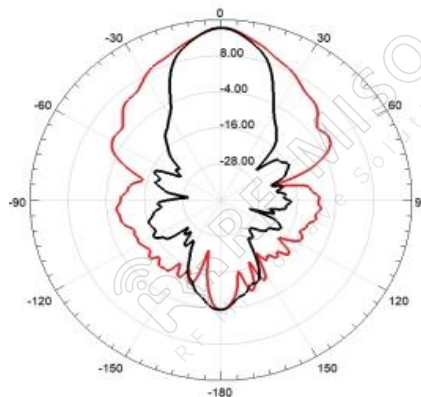
Port 1: 6GHz

3dB beamwidth(deg): H plane: 21.8, E-plane: 25.6



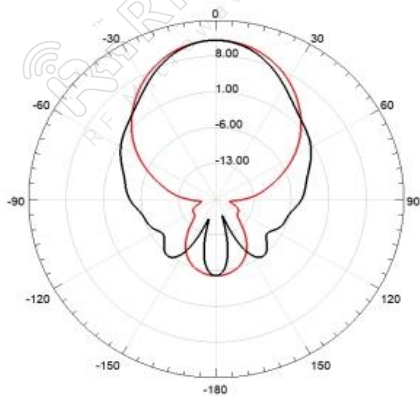
Port 1: 8GHz

3dB beamwidth(deg): H plane: 22, E-plane: 23



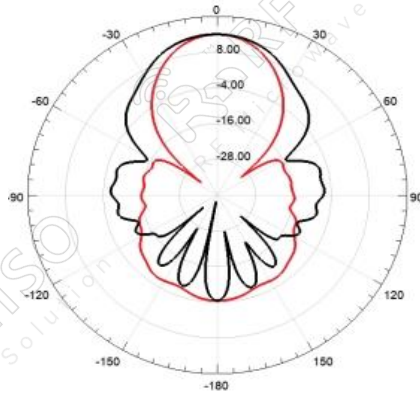
Port 2: 2GHz

3dB beamwidth(deg): H plane: 41.5, E-plane: 50



Port 2: 4GHz

3dB beamwidth(deg): H plane: 27, E plane: 38





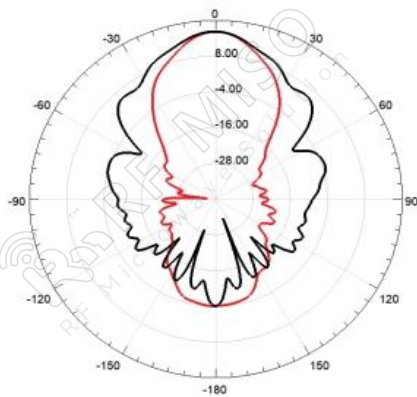
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Port 2: 6GHz

3dB beamwidth(deg): H plane: 20.3, E-plane: 24.6



Port 2: 8GHz

3dB beamwidth(deg): H plane: 19, E-plane: 21

