

Conical Dual Polarized Horn Antenna

20dBi Typ. Gain, 26.5-40GHz Frequency Range

Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA28-20

Features

- WR-28 Rectangular Waveguide Interface
- Dual Polarization
- High Port Isolation
- Precisely Machined

Description

The **RM-CDPHA28-20** from RF MISO is a dual-polarized, operating from 26.5 to 40GHz with a 20dB Typ. gain and low VSWR 1.5:1 with rectangular waveguide WR28 output. The antenna features an integrated orthogonal mode converter that provides high port isolation. It's ideally suited for gain reference, antenna measurement, reflector feed, CATR and other applications.

Specifications

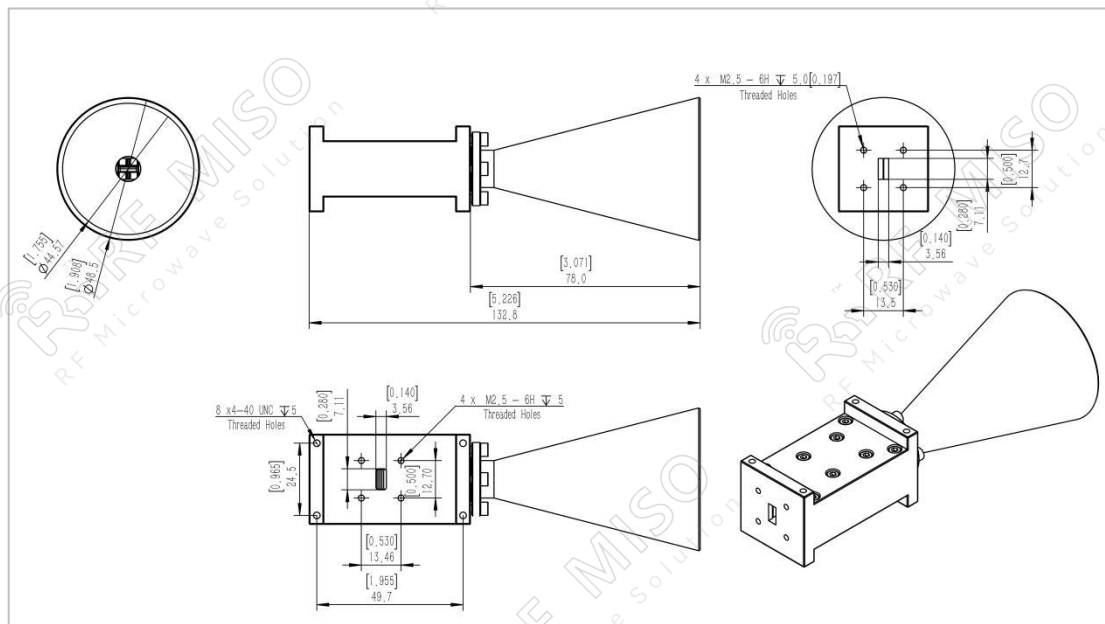
Item	Specification		Units
Frequency Range	26.5-40		GHz
Gain	20 Typ.		dBi
VSWR	1.5:1 Typ.		
Polarization	Dual		
Port Isolation	50 Typ.		dB
Cross Polarization	40 Typ.		dB
3db Beamwidth, E-Plane	11.40~15.65		°
3db Beamwidth, H-Plane	13.0~18.80		°
Interface	FBP320(A Type)	2.4-Female(C Type)	
Finishing	Black Plated		
Material	Al		
Size (L*W*H), C Type	162.1*48.5*63.1(±5)		mm
Weight	0.387(A Type)	0.405(C Type)	Kg
Power Handling, C Type	CW: 10	Peak: 20	W

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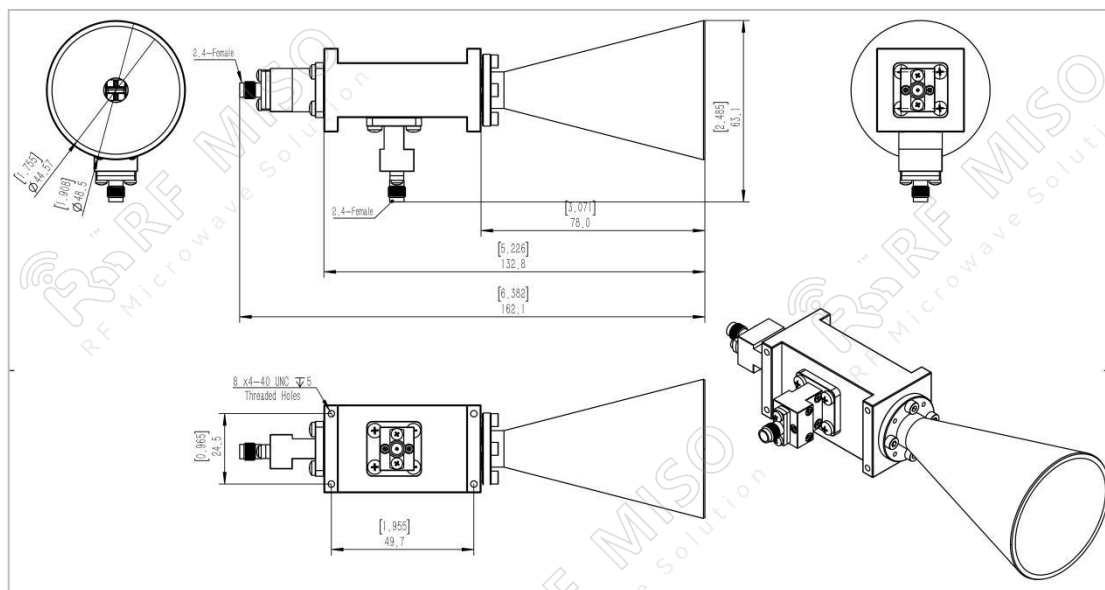
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A-Type Mechanical Drawing (P/N: RM-CDPHA28-20A)



C-Type Mechanical Drawing (P/N: RM-CDPHA28-20C)



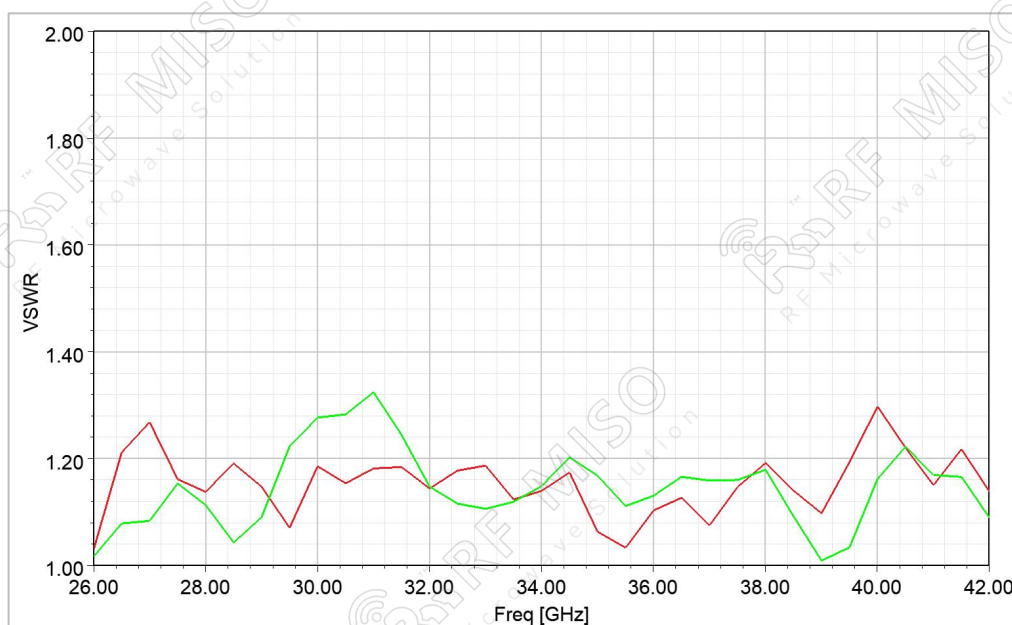
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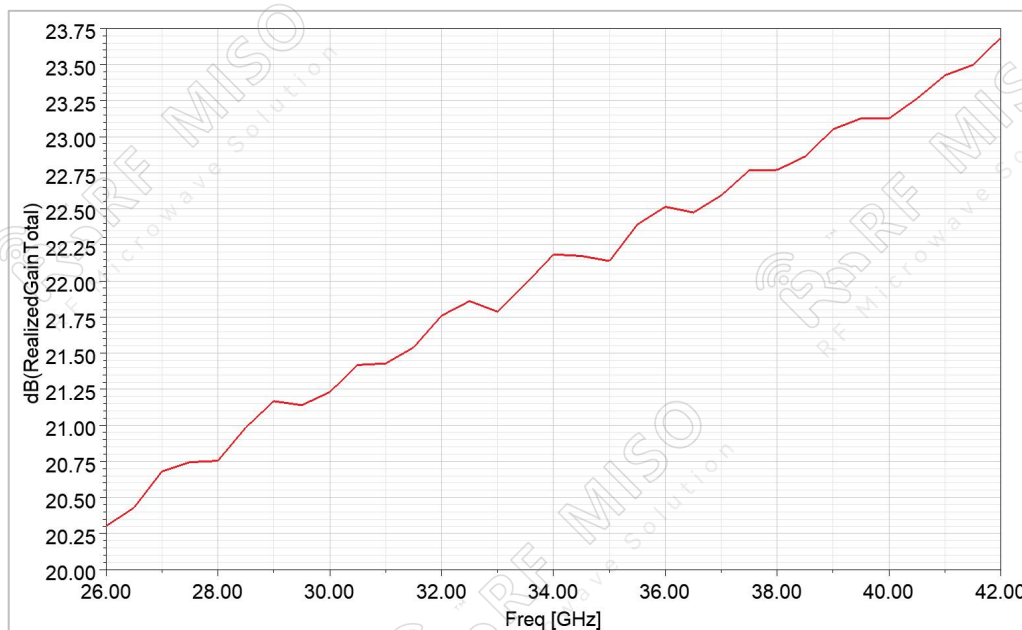
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Simulated Data

VSWR



Gain

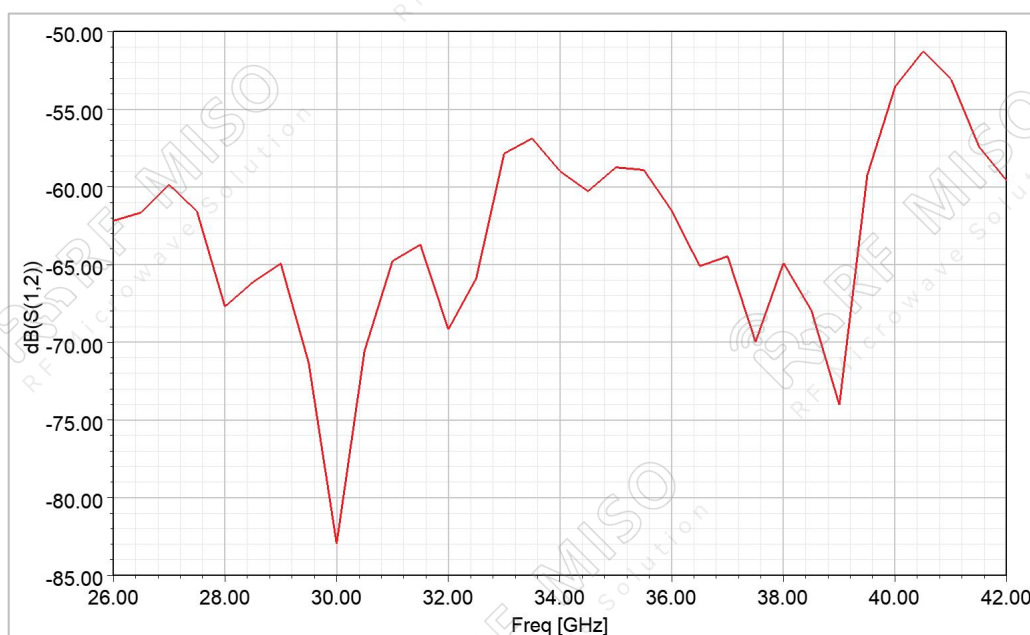


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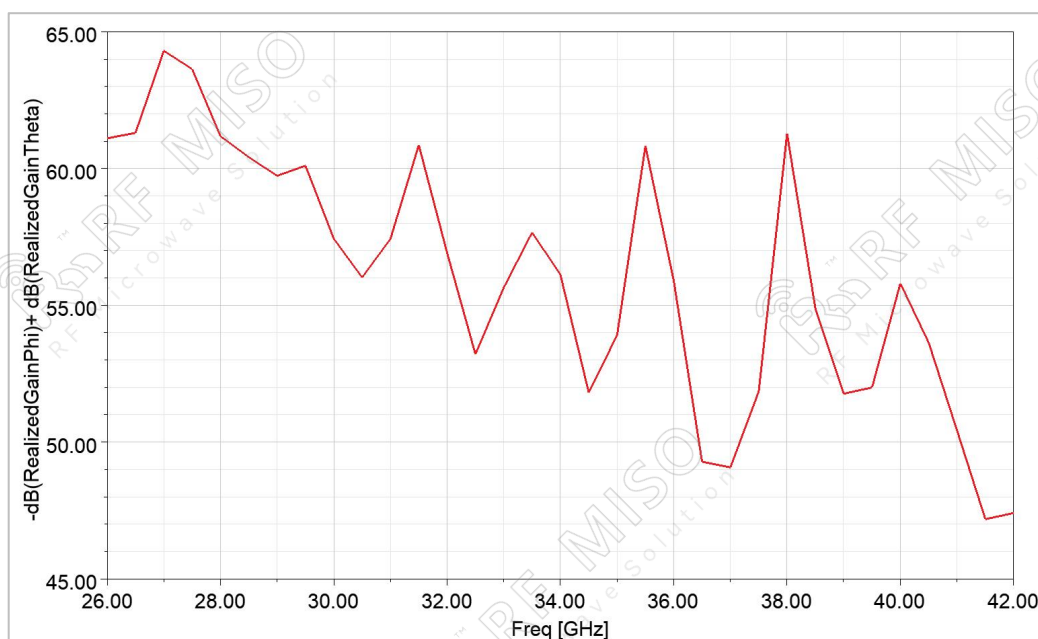
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Port Isolation



Cross Polarization

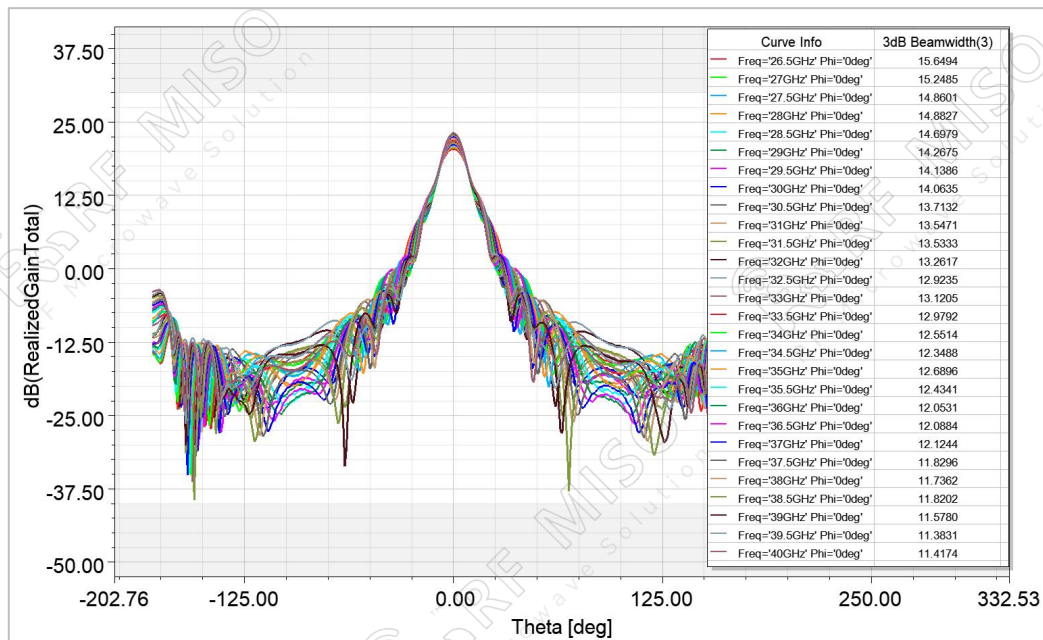


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Pattern_E Plane



Pattern_H Plane

