

*Dual Circular Polarization Horn Antenna  
20 dBi Typ. Gain, 75-110 GHz Frequency Range*

**Dual Circular Polarized Horn Antenna Data Sheet**

**RM-DCPHA10-20**

**Descriptions**

RF MISO's **Model RM-DCPHA10-20** is a dual circular polarized horn antenna that operates from 75 to 110 GHz, The antenna offers 20 dBi typical gain. The antenna VSWR is typical 1.1:1. The antenna can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

**Specifcaions**

<b>RM-DCPHA10-20</b>		
Parameters	Typical	Units
Frequency Range	75-110	GHz
Gain	20 Typ.	dBi
VSWR	1.1 Typ.	
Polarization	LHCP & RHCP	
Cross Polarization	25 Typ.	dB
3dB Beamwidth	13.24-18.86	°
Waveguide Size	WR10	
Power Handling,CW	10	w
Power Handling,Pulse	20	w
Flange	UG-387/U-M	
Material	Cu	
Finishing	Gold-Plated	
Size(L*W*H)	58.5*19.8*21.8(±5)	mm
Weight	0.127	Kg

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**Outline Drawing**



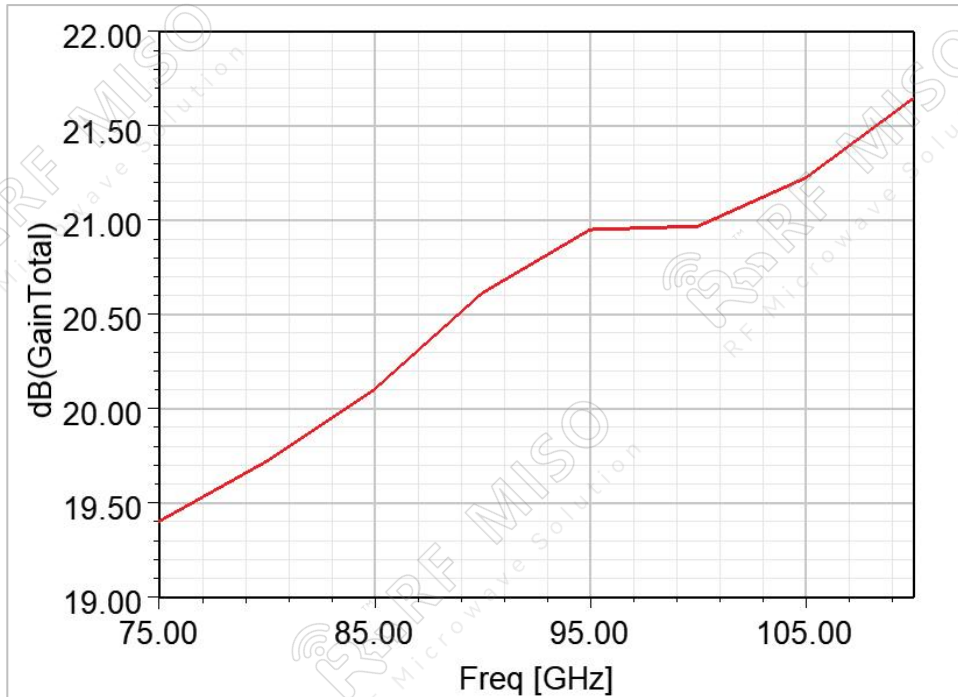
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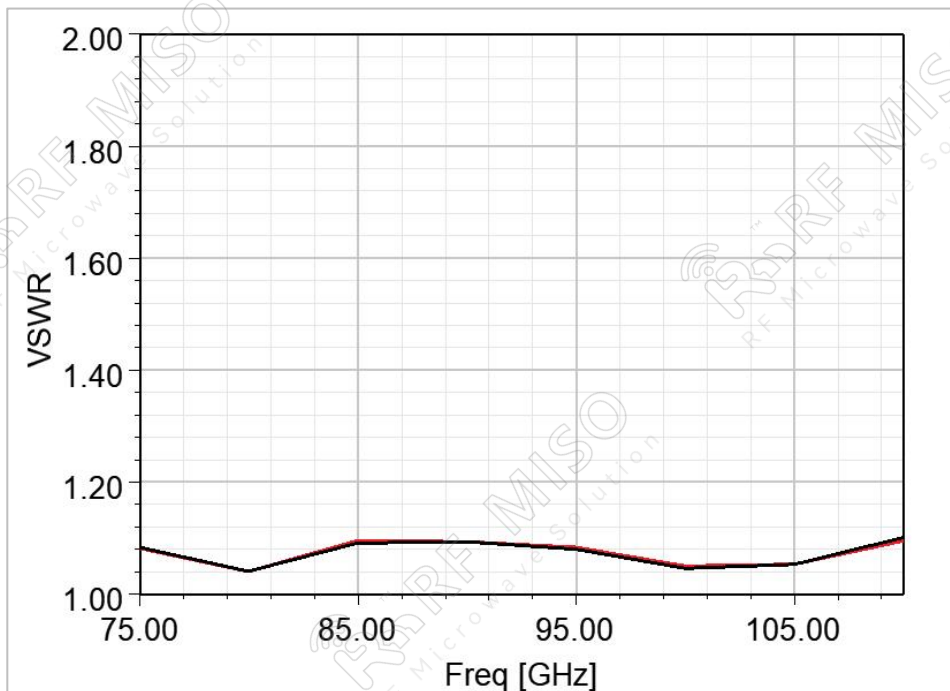
RM-DCPHA10-20

### Simulation Data

Gain



VSWR

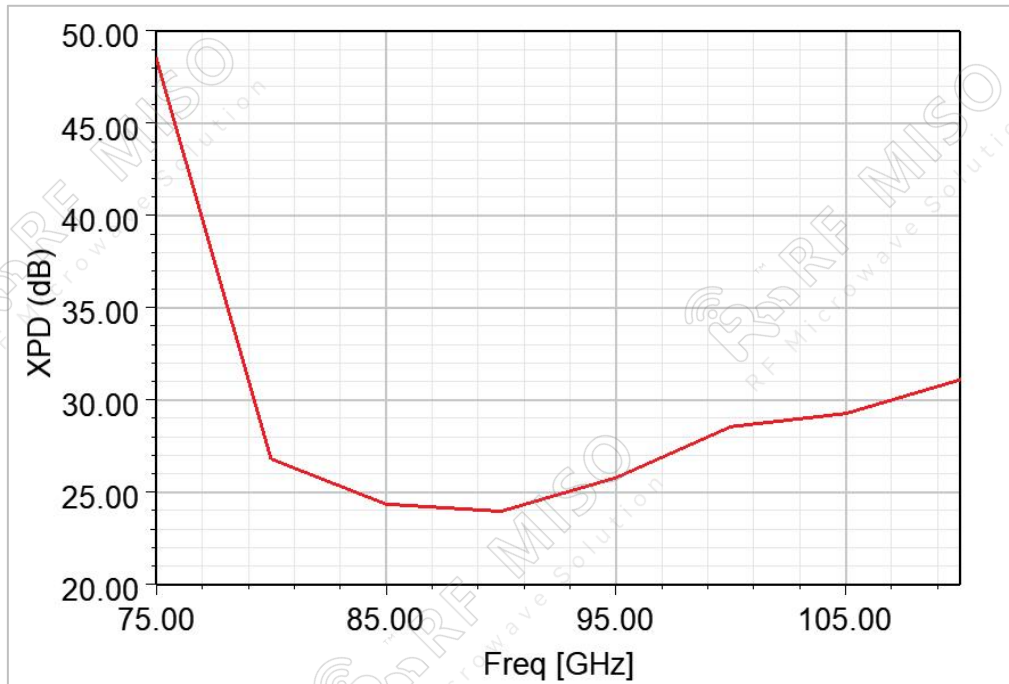


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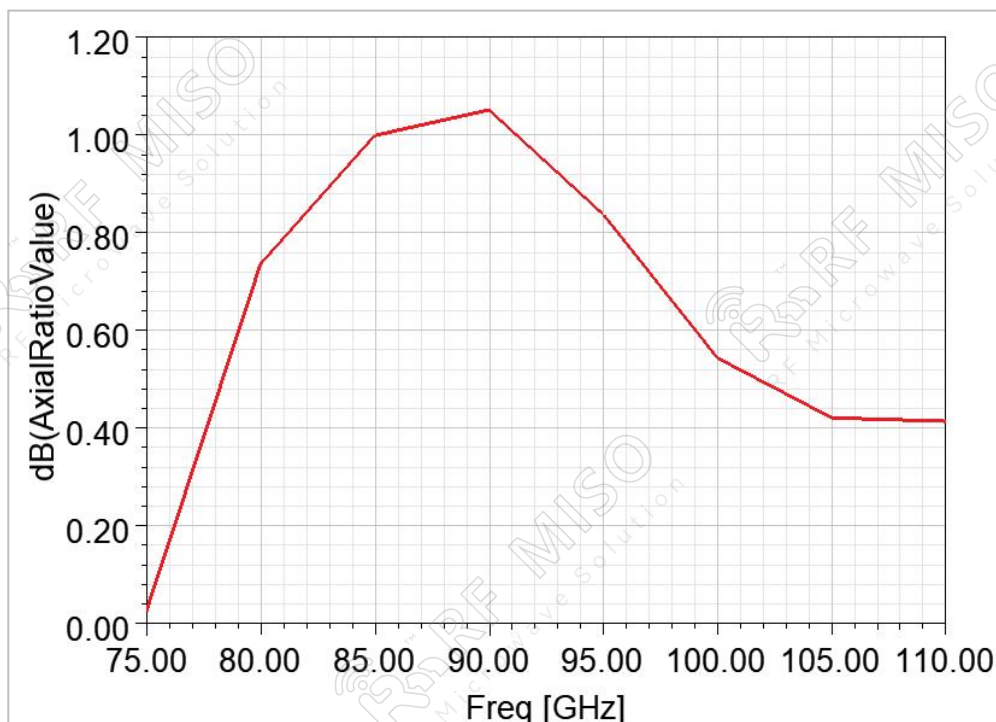
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Cross Polarization



AR

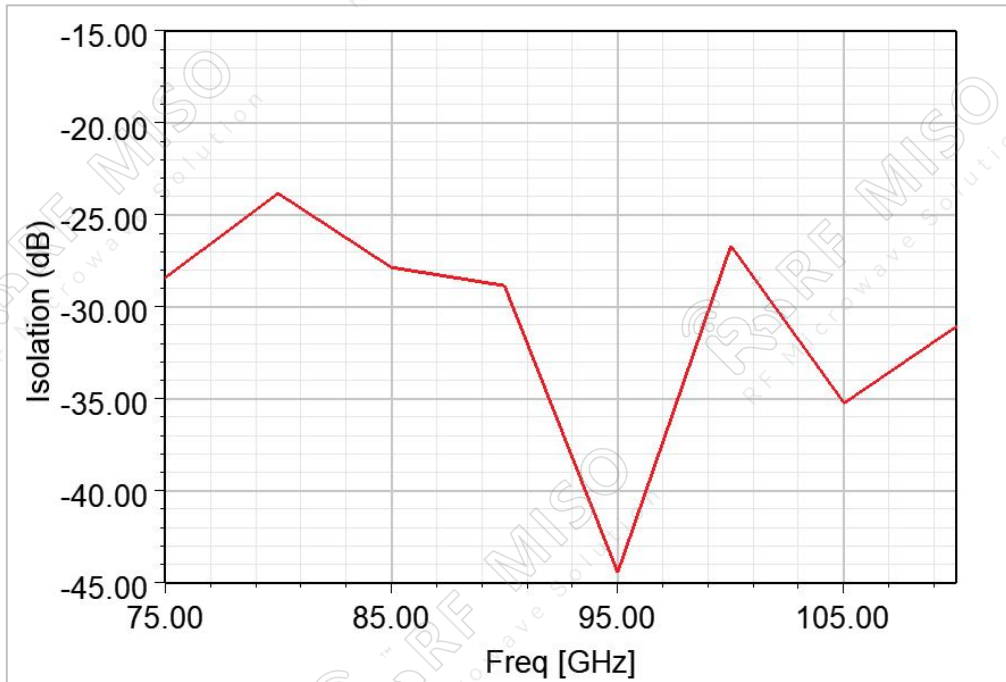


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Port-to-Port Isolation



Gain Pattern

