

*Dual Polarized Horn Antenna  
20dBi Typ. Gain, 220-325 GHz Frequency Range*

## Dual Polarized Horn Antenna Data Sheet

**RM-DPHA3-20**

### Features

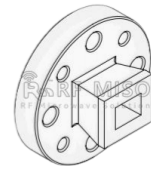
- Full Band Performance
- Dual Polarization
- High Isolation
- Precisely Machined and Gold Plated

### Description

The **RM-DPHA3-20** is a full-band, linear-polarized horn antenna assembly that operates in the frequency range of 220 to 325 GHz. The antenna offers a typical gain of 20 dBi and low VSWR 1.15:1. The input to the antenna is a WR-3 waveguide. The antenna features an integrated orthogonal mode converter that provides high port isolation.

### Specifications

RM-DPHA3-20		
Item	Specification	Units
Frequency Range	220-325	GHz
Gain	20 Typ.	dBi
VSWR	1.15:1 Typ.	
Polarization	Linear	
Cross Polarization	50	dB
Size	19.1*9.74*19.1	mm
Weight	0.009	Kg
Material and Finish	Cu, Gold	
Waveguide Size	WR-3	

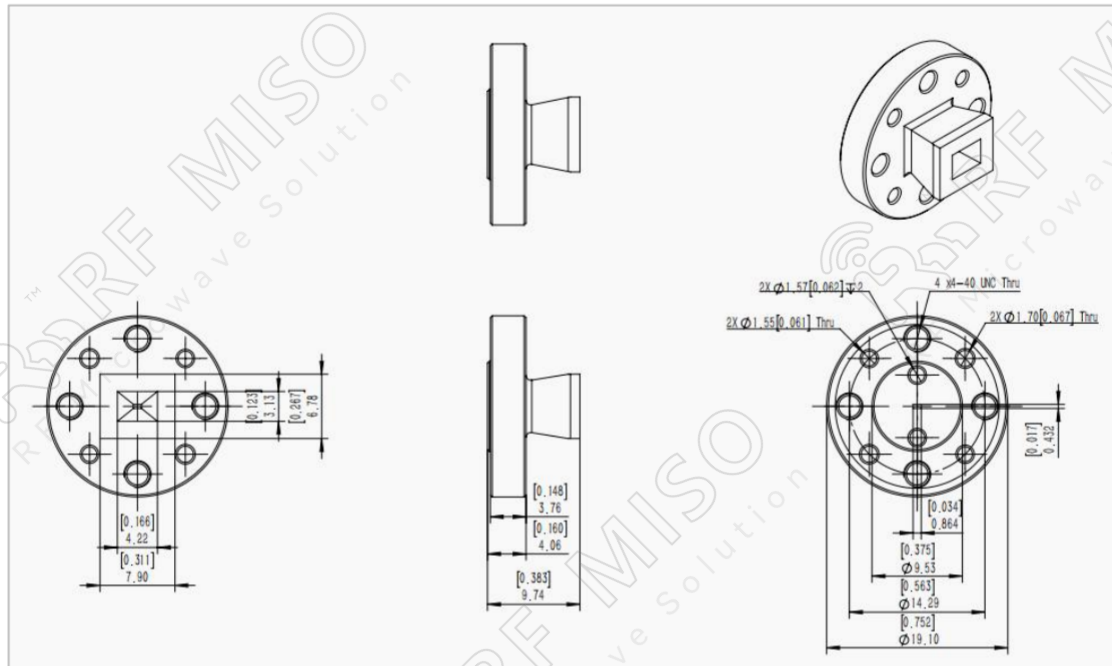


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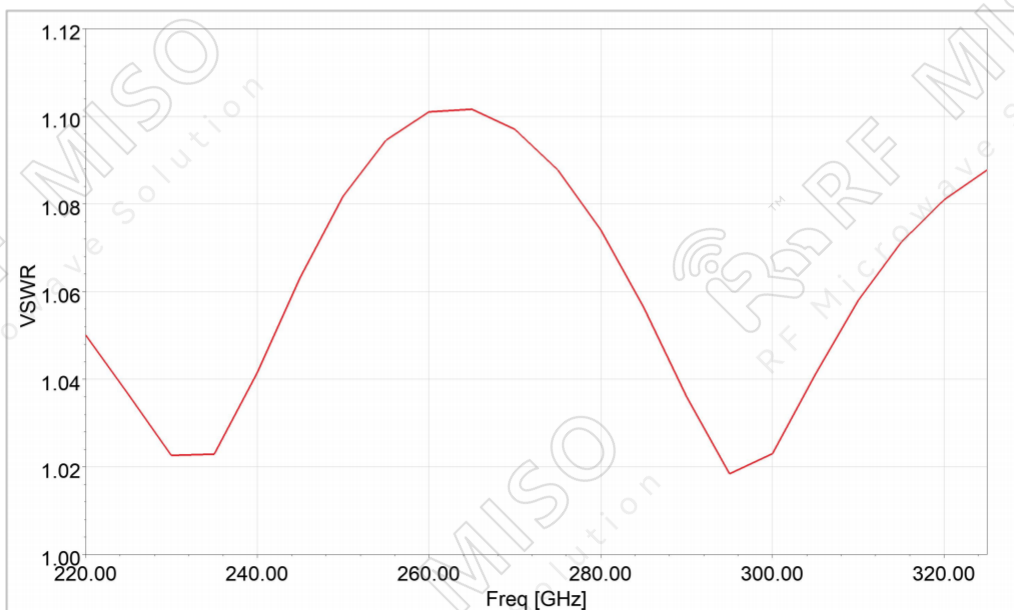
**RM-DPHA3-20**

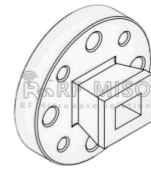
**Outline Drawing**



**Simulated Result**

VSWR



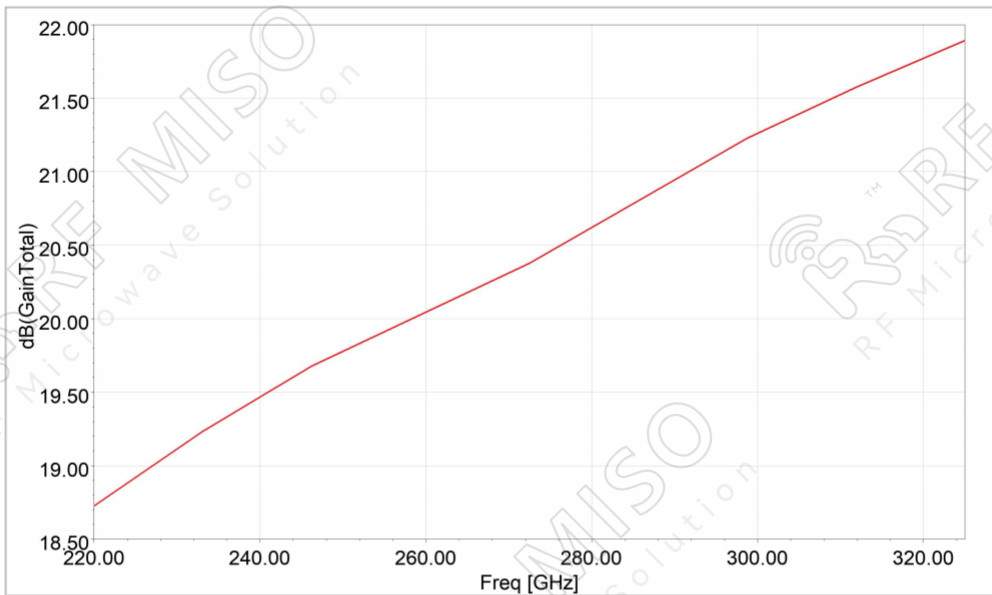


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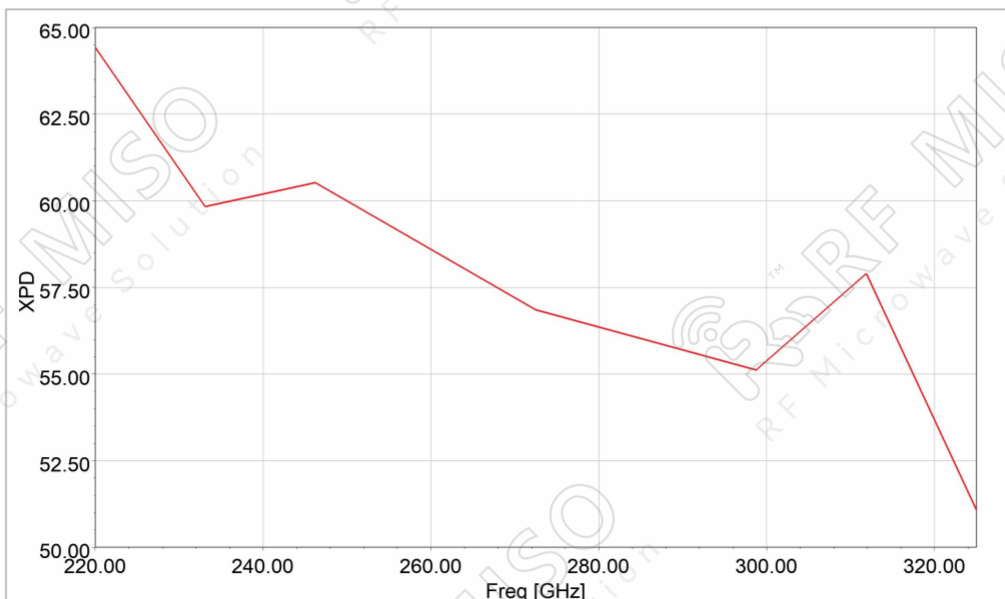
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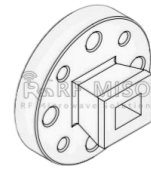
**RM-DPHA3-20**

Gain



Cross Polarization



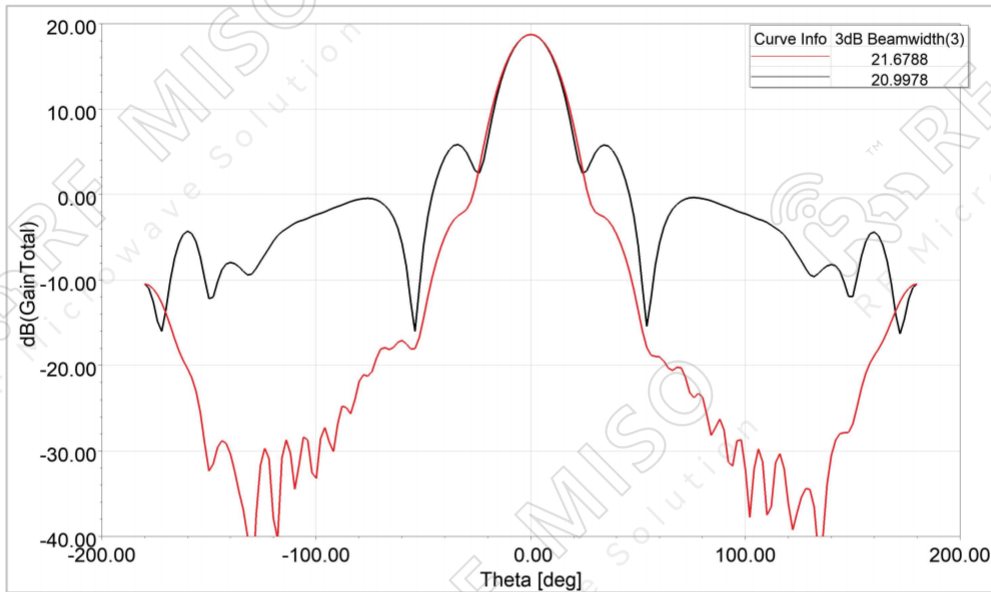


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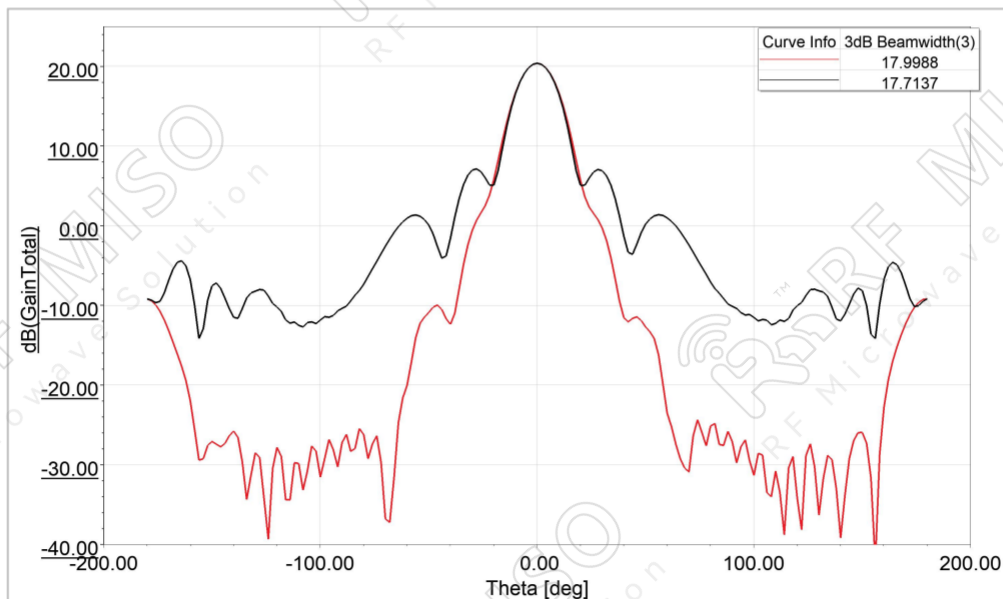
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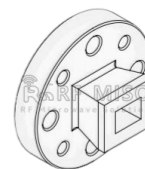
Gain Pattern



220 GHz



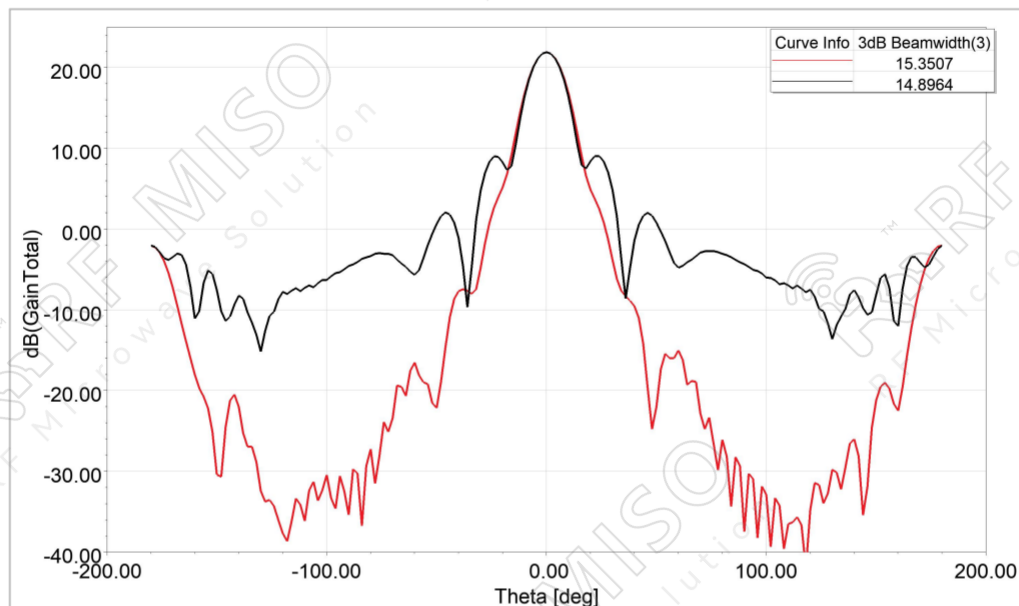
275 GHz



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325 GHz