

*Dual Circular Polarized Horn Antenna 10dBi Typ.
Gain, 12-18 GHz Frequency Range*

Dual Circular Polarized Horn Antenna Data Sheet

RM-DCPHA1218-10

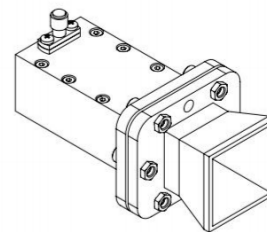
Descriptions

RF MISO's Model RM-DCPHA1218-10 is dual circular polarized horn antenna that operates from 12 to 18GHz. The antenna offers a typical gain of 10dBi and low VSWR 1.4 Typ. The antenna RF ports are SMA-Female coaxial connector. The antenna can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

Specifications

RM-DCPHA1218-10			
Parameters	Specification		Unit
Frequency Range	12-18		GHz
Gain	10 Typ.		dBi
VSWR	1.4 Typ.		
Polarization	Dual Circular		
AR	<1.3		
Cross Polarization	30 Typ.		dB
Port Isolation	25 Typ.		
3dB Beamwidth	E-Plane: 37~53	H-Plane: 37-53	deg
Interface	SMA-Female		
Material	Al		
Finishing	Paint		
Average Power	50		W
Peak Power	100		W
Size (L*W*H)	82.4*42.5*42.5 (±5)		mm
Weight	0.109		kg

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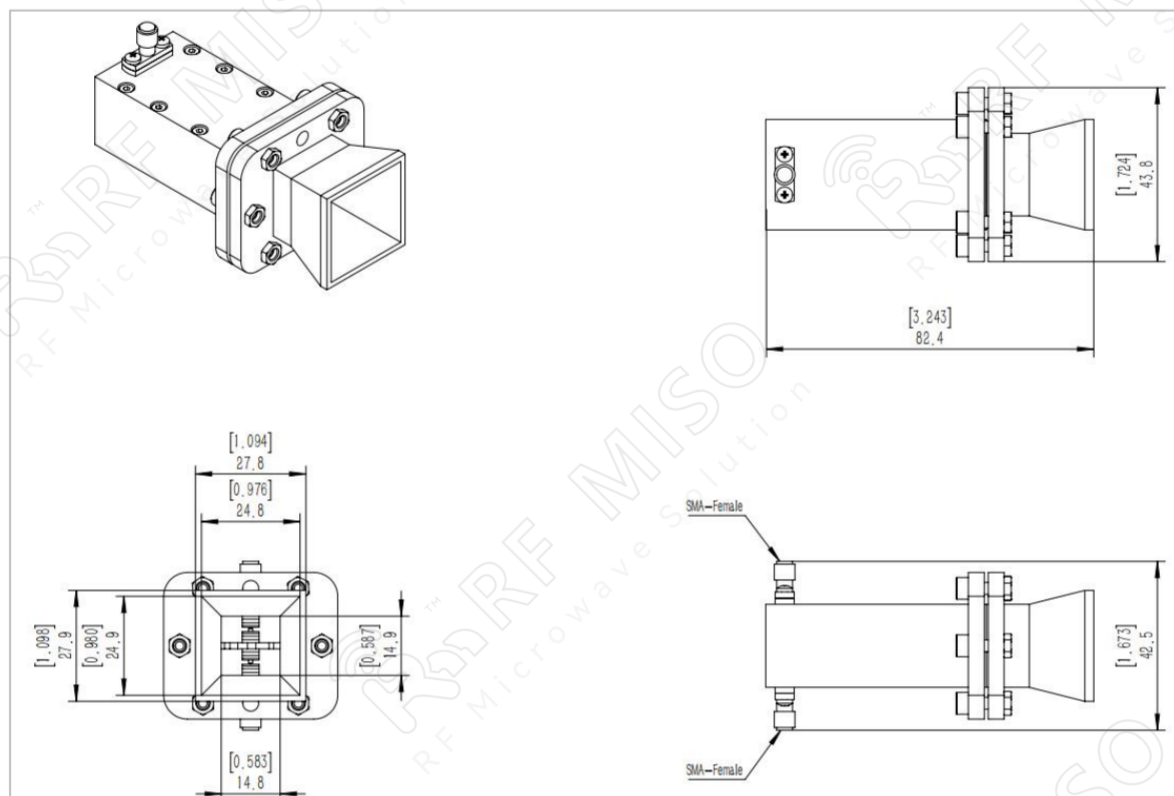


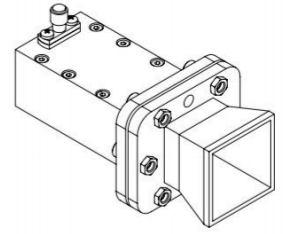
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Outline Drawing

N type and 2.92mm type connectors are available, please contact RF Miso.





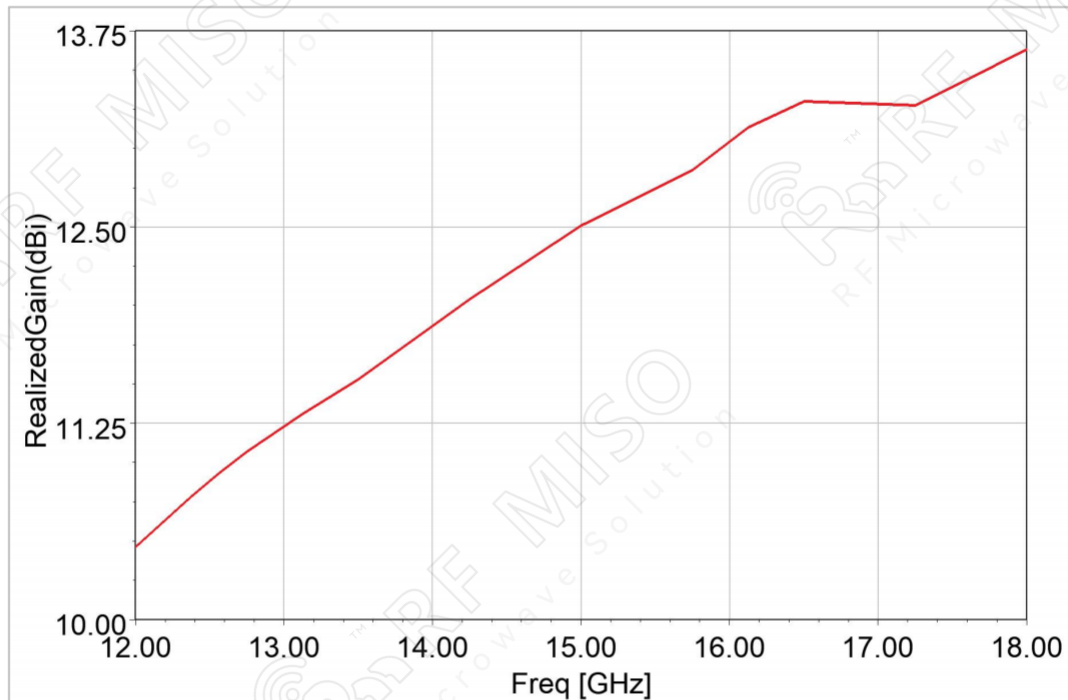
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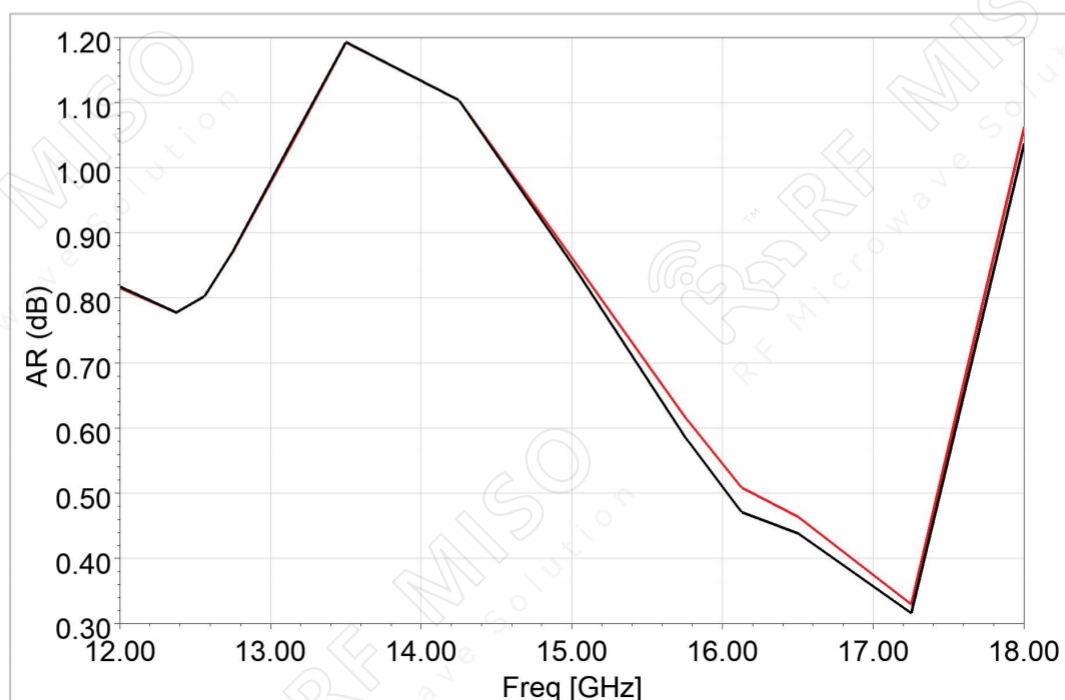
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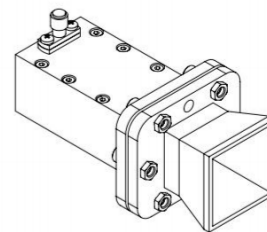
Simulation Data

Gain



AR



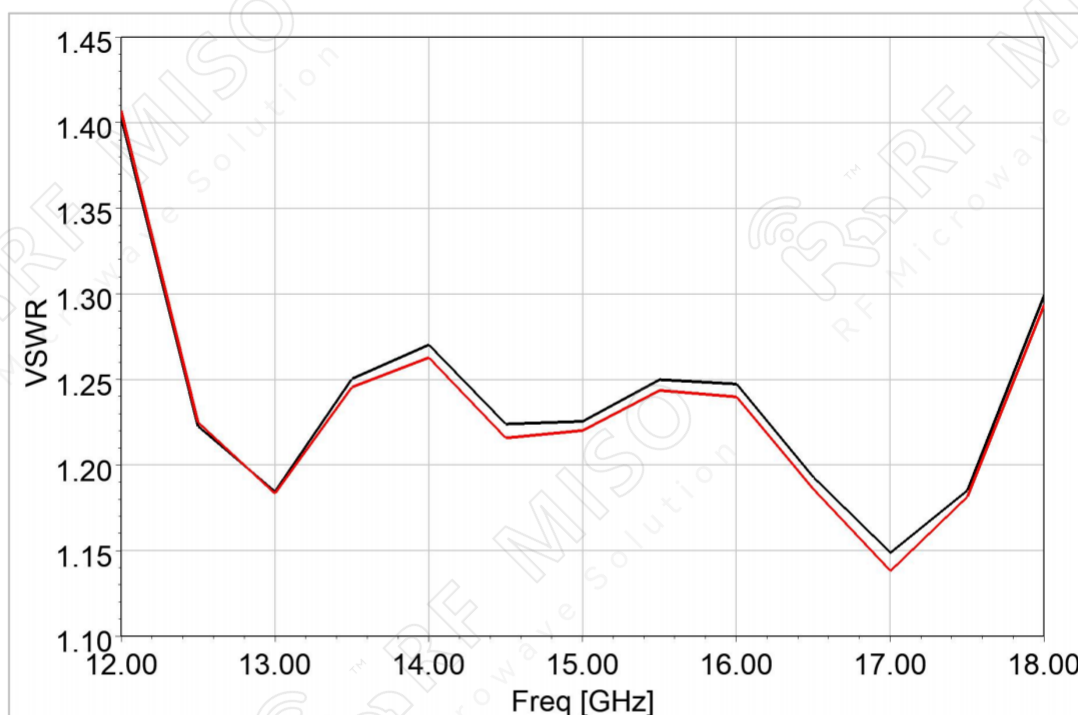


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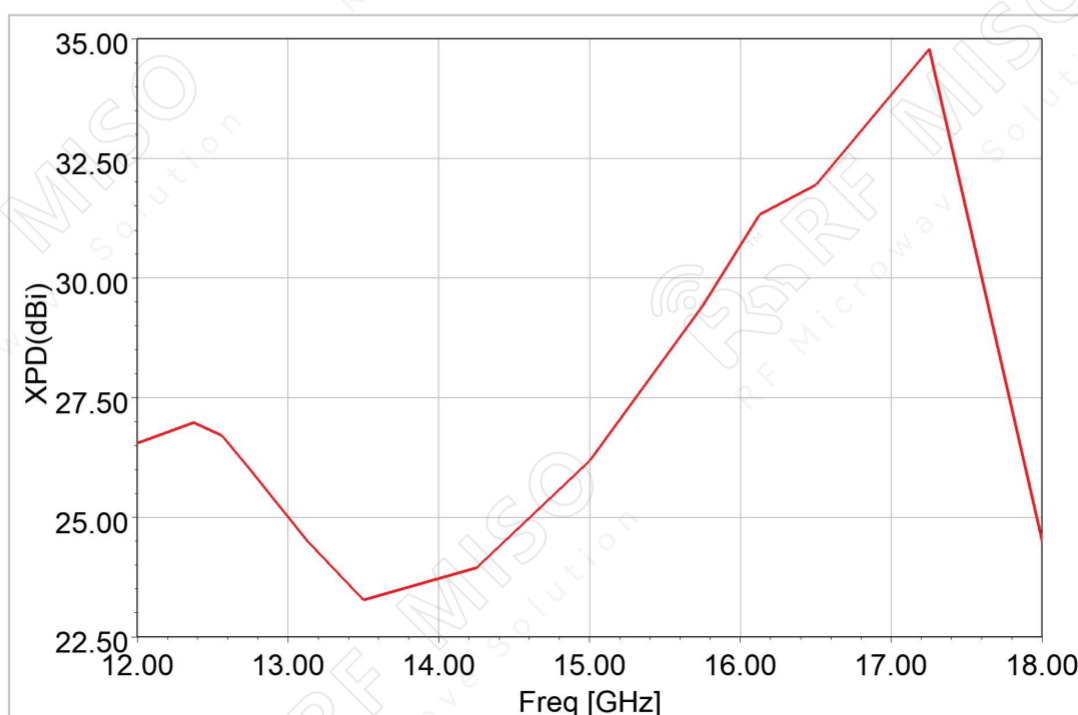
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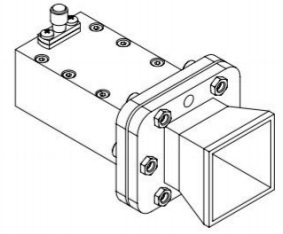
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VSWR



Cross Polarization



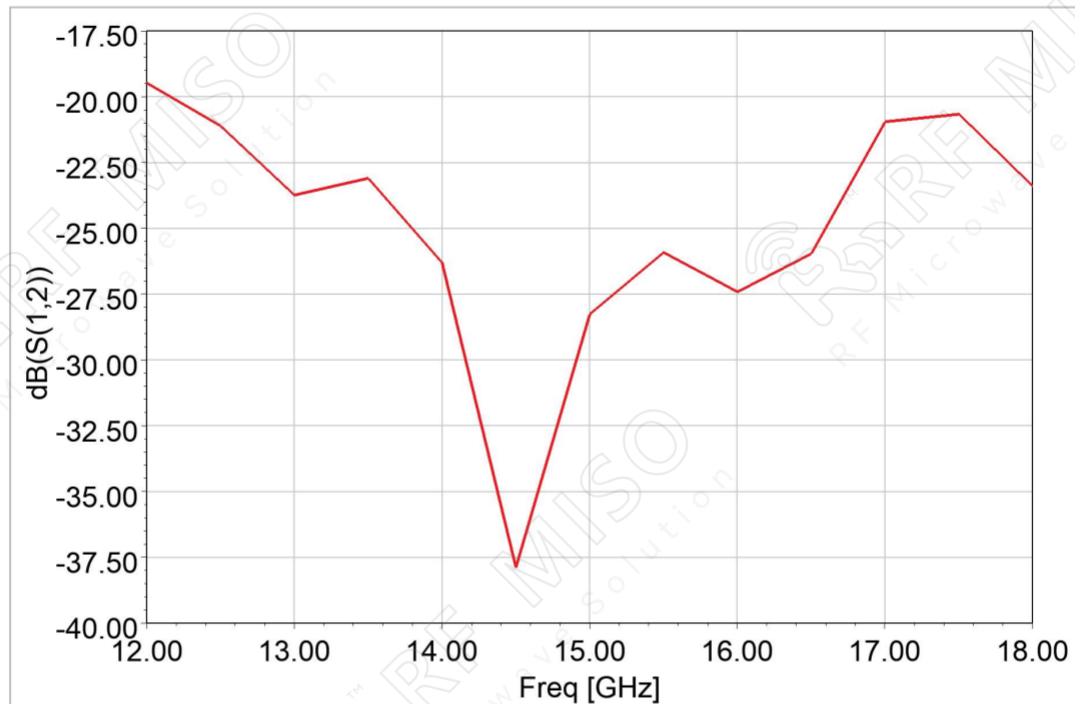


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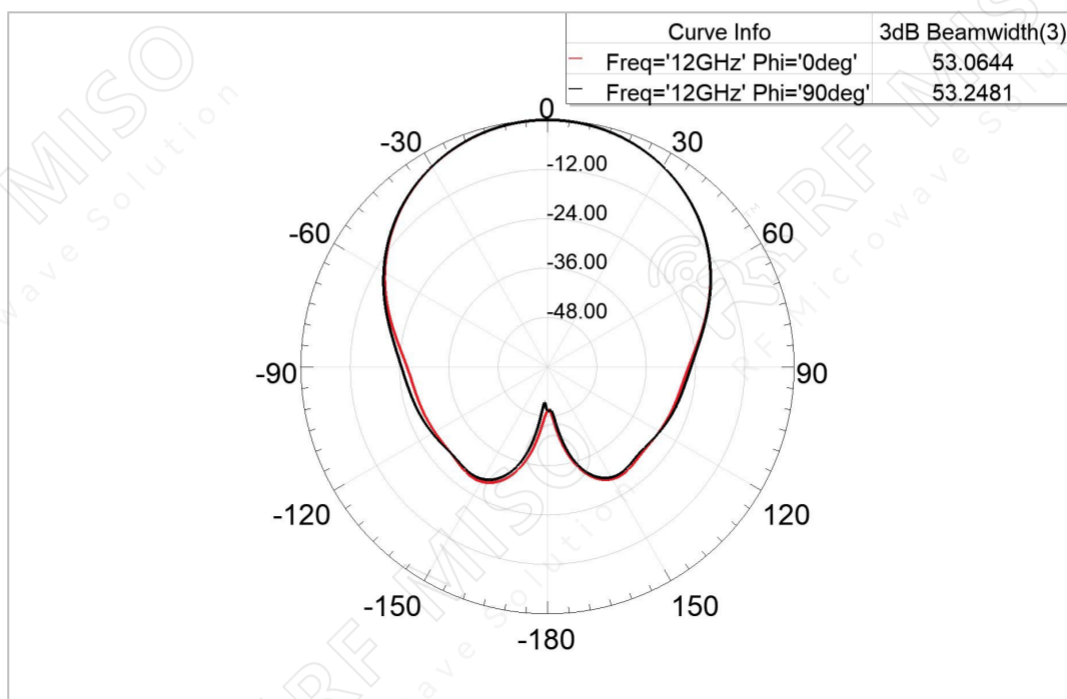
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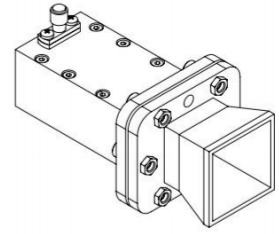
Port Isolation



Gain Pattern

12 GHz



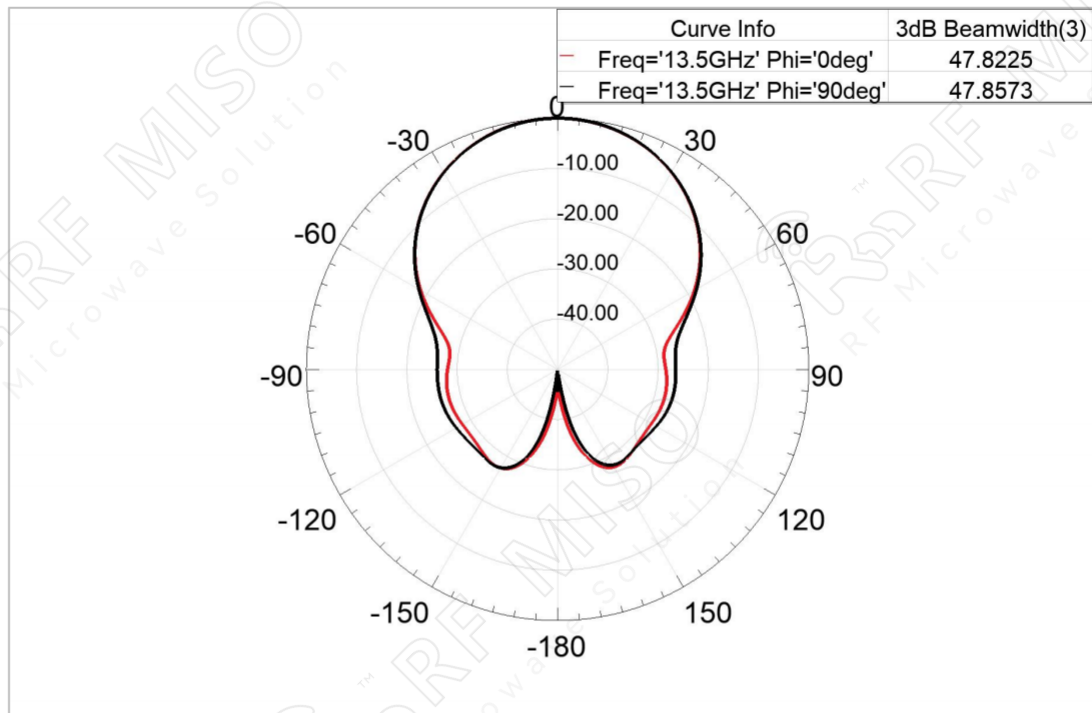


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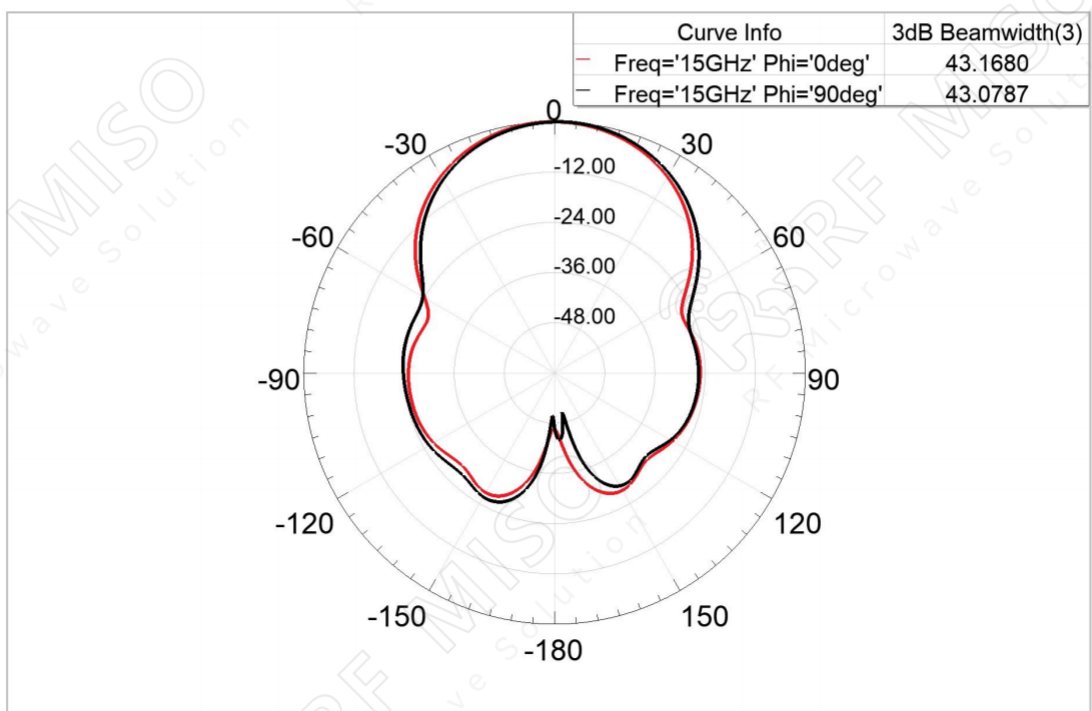
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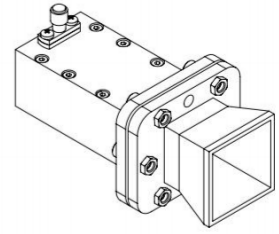
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13.5 GHz



15 GHz



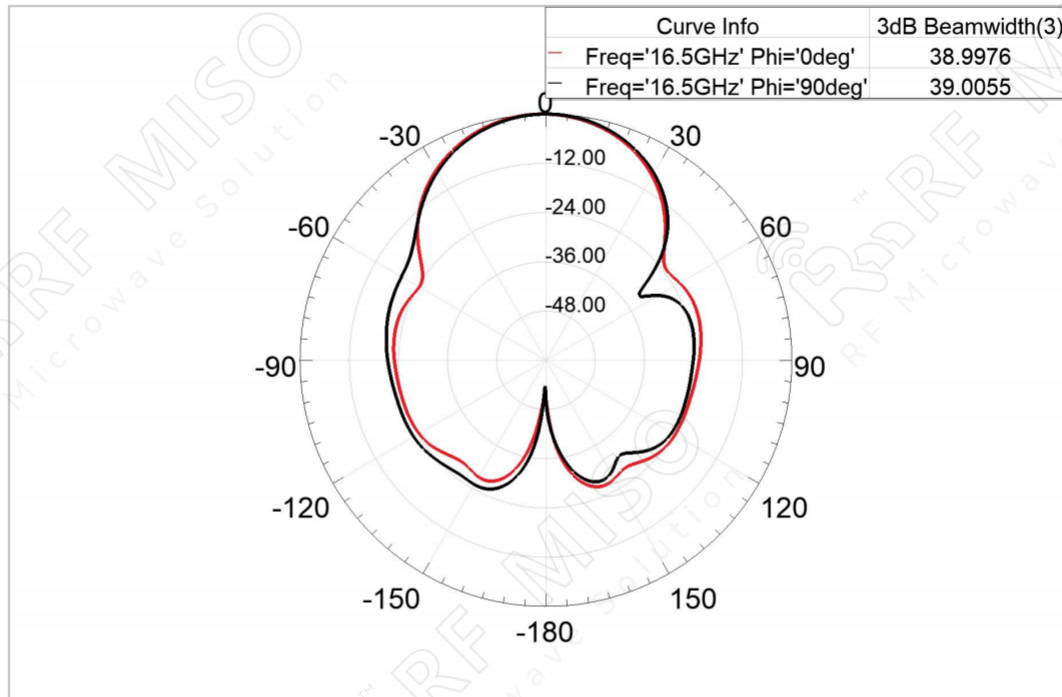


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16.5 GHz



18 GHz

