

*Broadband Dual Polarized Horn Antenna
18 dBi Typ. Gain, 18-40 GHz Frequency Range*

Broadband Dual Polarized Horn Antenna Data Sheet

RM-BDPHA1840-18

Features

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

Descriptions

RF MISO's **Model RM-BDPHA1840-18** is a dual polarized horn antenna that operates from 18 to 40 GHz, The antenna offers 18dBi typical gain. The antenna VSWR is typical 1.5:1. The antenna RF ports are 2.92mm-Female connector. The antenna can be widely used in EMC and EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

Specifications

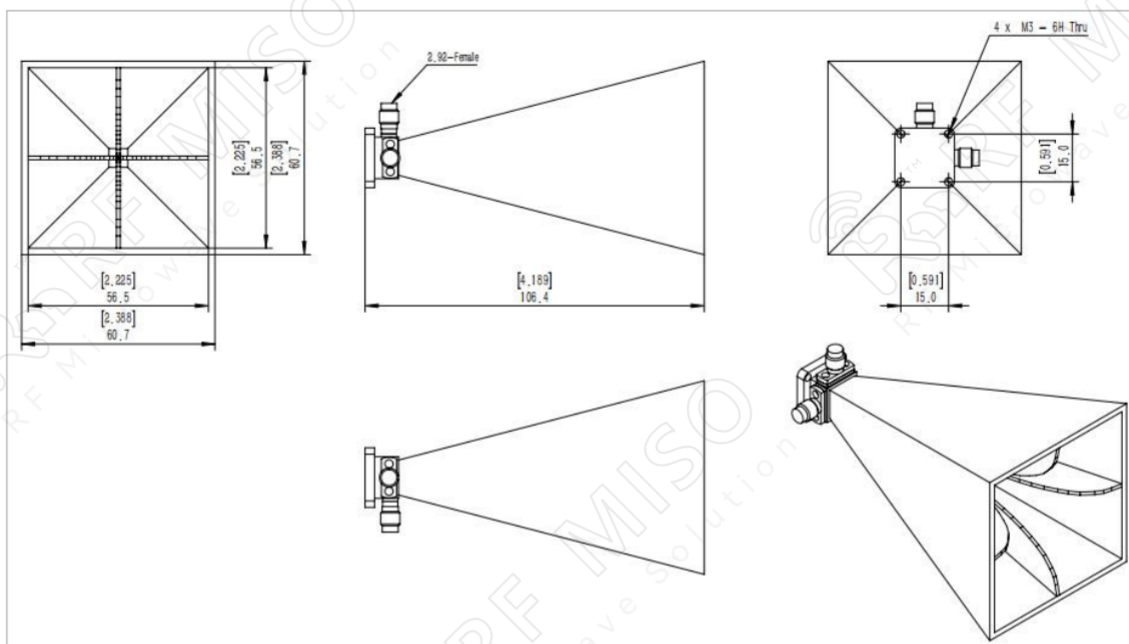
RM-BDPHA1840-18		
Parameters	Typical	Units
Frequency Range	18-40	GHz
Gain	18 Typ.	dBi
VSWR	1.5 Typ.	
Polarization	Dual Linear	
Cross Pol. Isolation	30 Typ.	dB
Port Isolation	30 Typ.	dB
Connector	2.92mm-Female	
3dB Beamwidth, E-Plane	15.5-22.5	Deg.
3dB Beamwidth, H-Plane	20.7-32	Deg.
Material	Al	
Finishing	Paint	
Size	106.3*60.7*60.7(L*W*H)	mm
Weight	0.093	kg
Power Handling, CW	10	W
Power Handling, Peak	20	W

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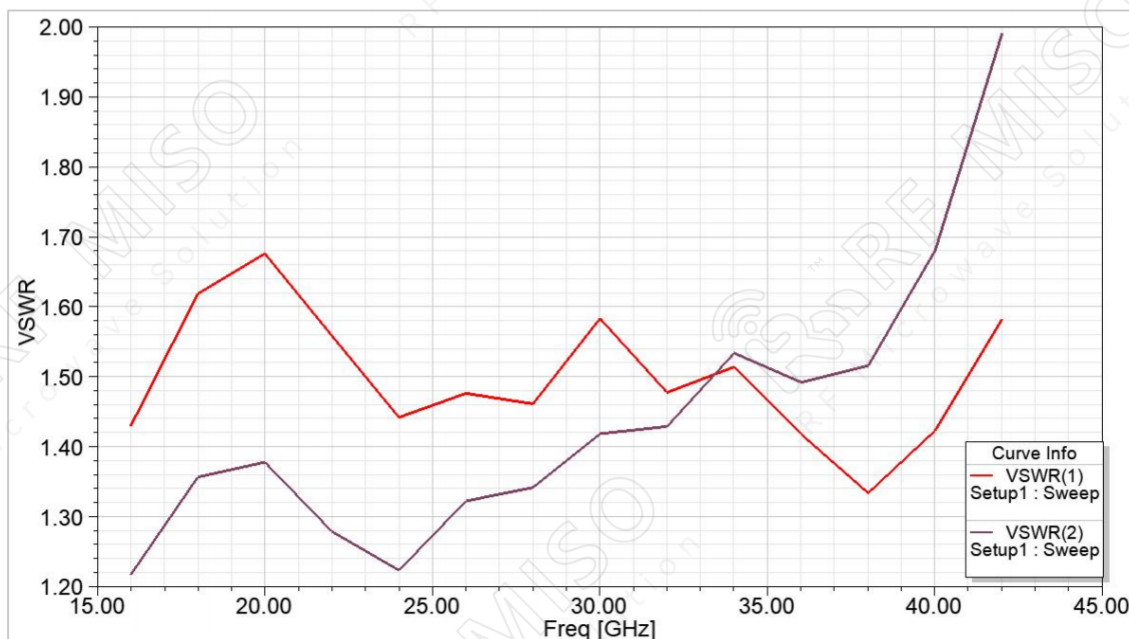
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RM-BDPHA1840-18

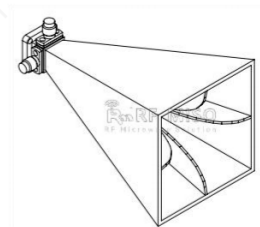
Outline Drawing:(mm)



Simulation data



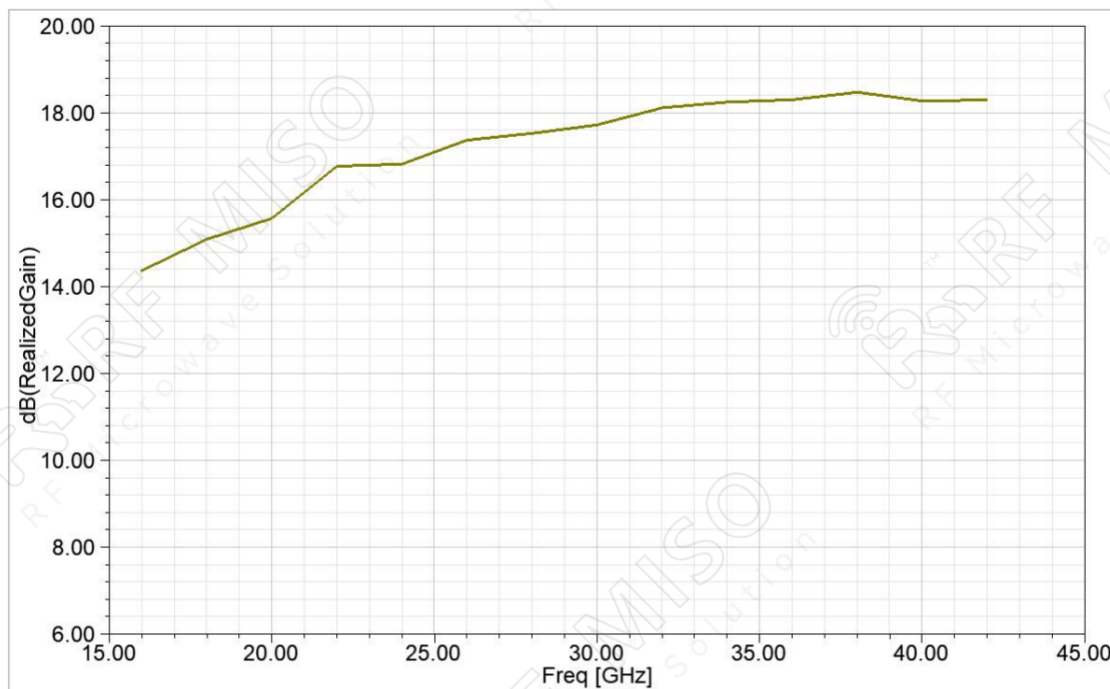
VSWR



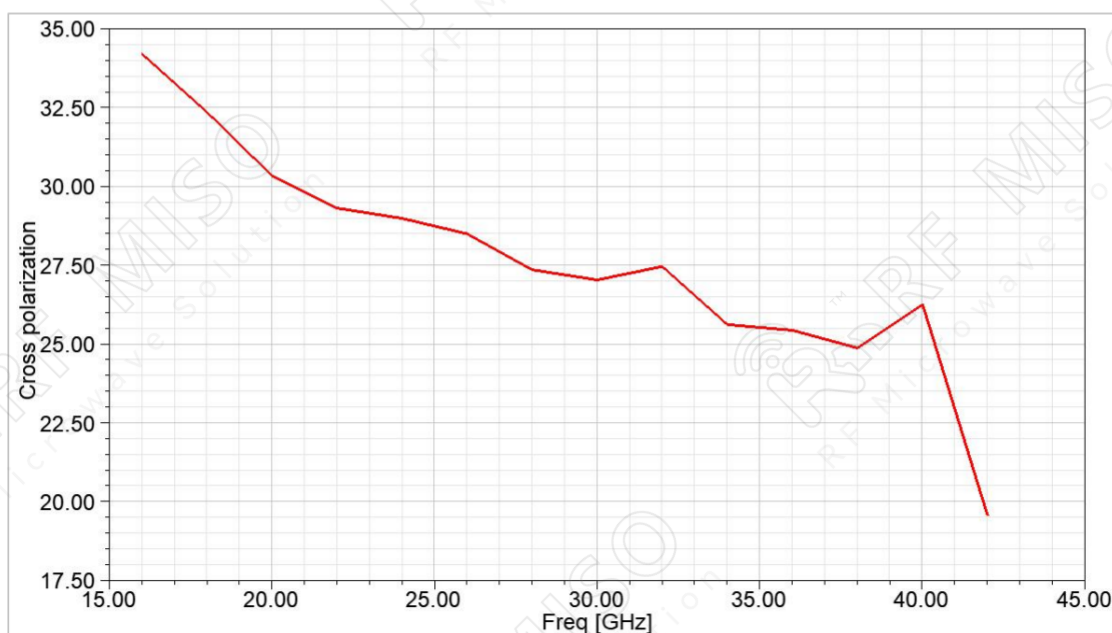
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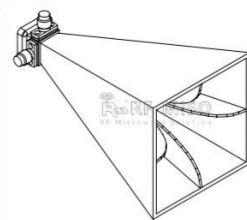
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Gain



Cross Polarization

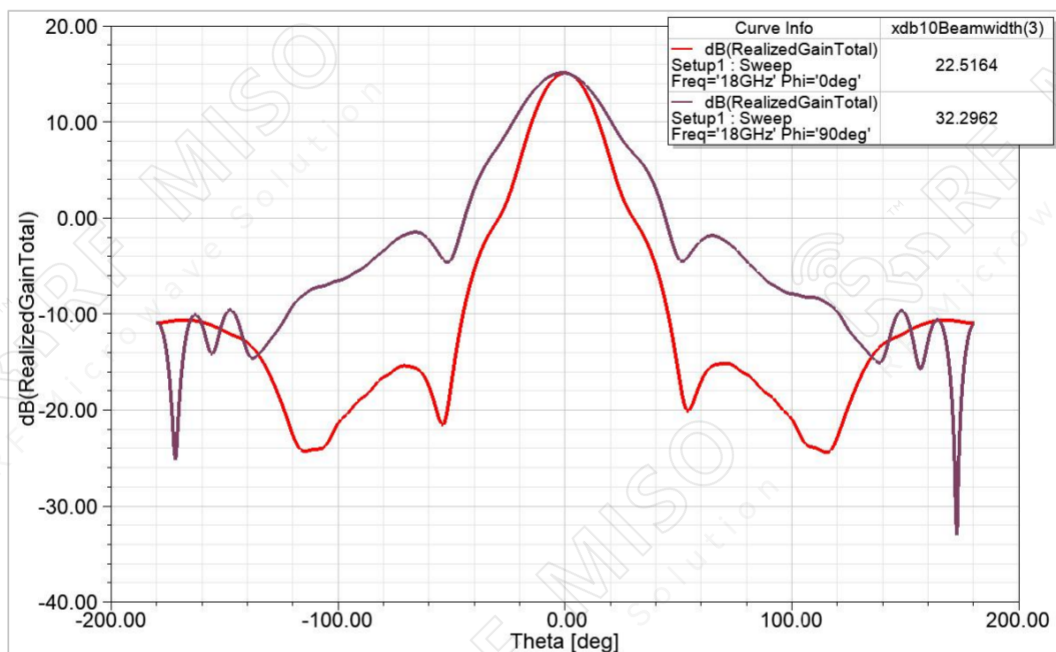


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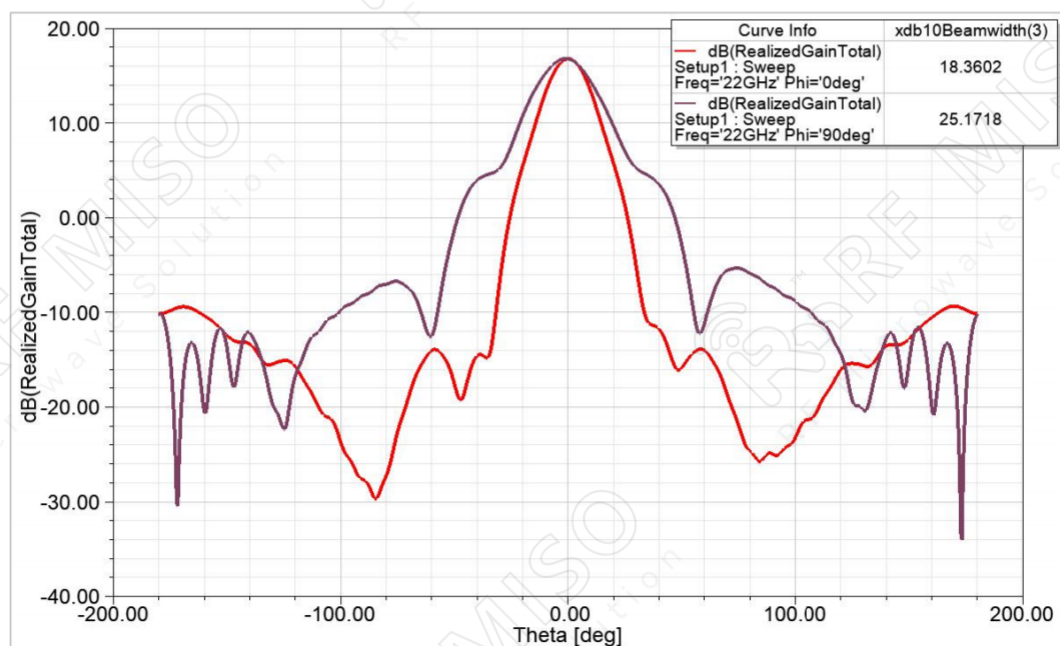
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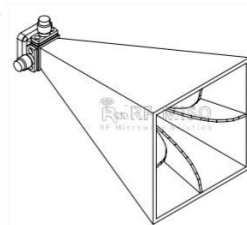
Gain Pattern



18GHz



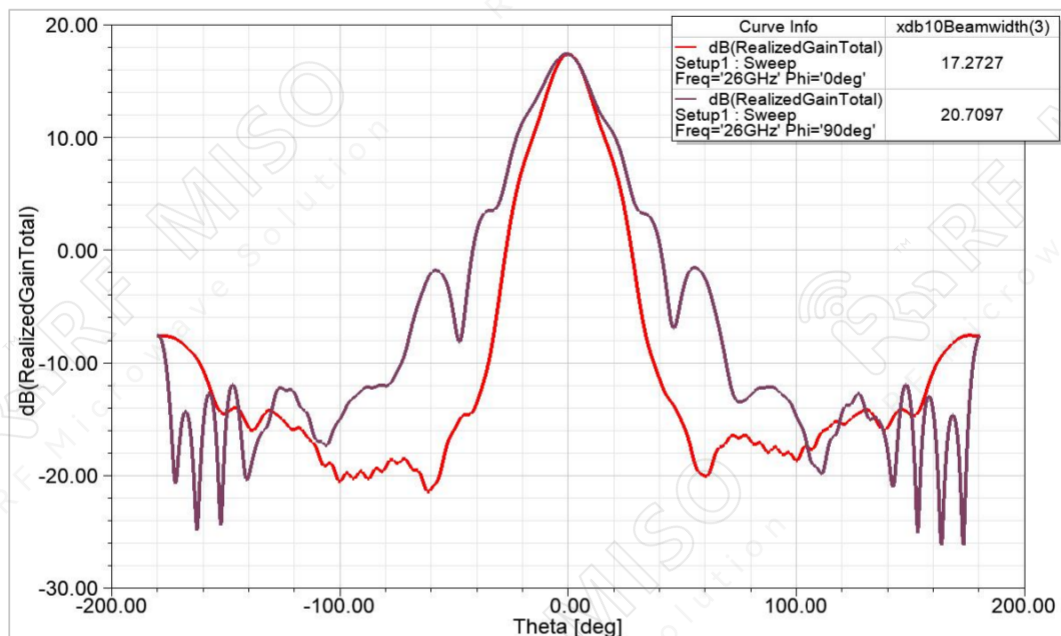
22GHz



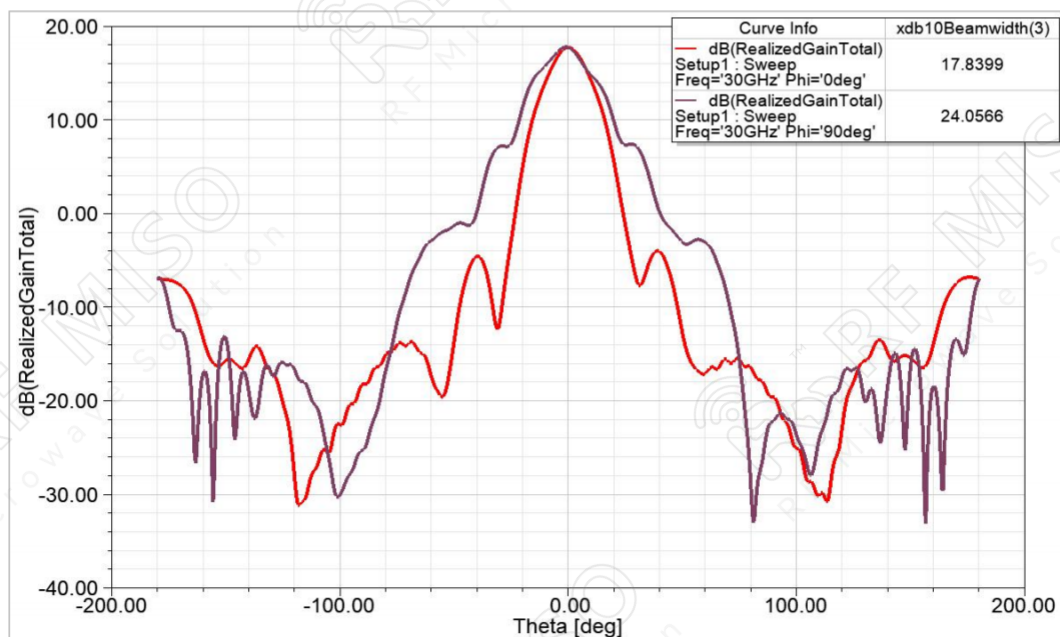
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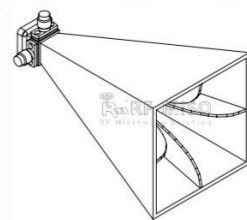
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26GHz



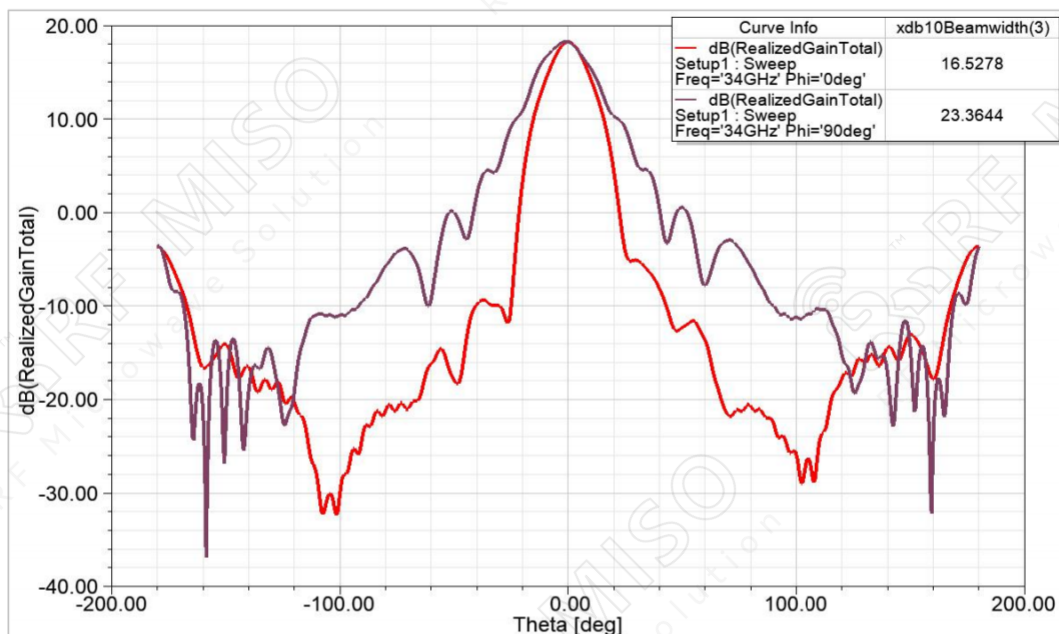
30GHz



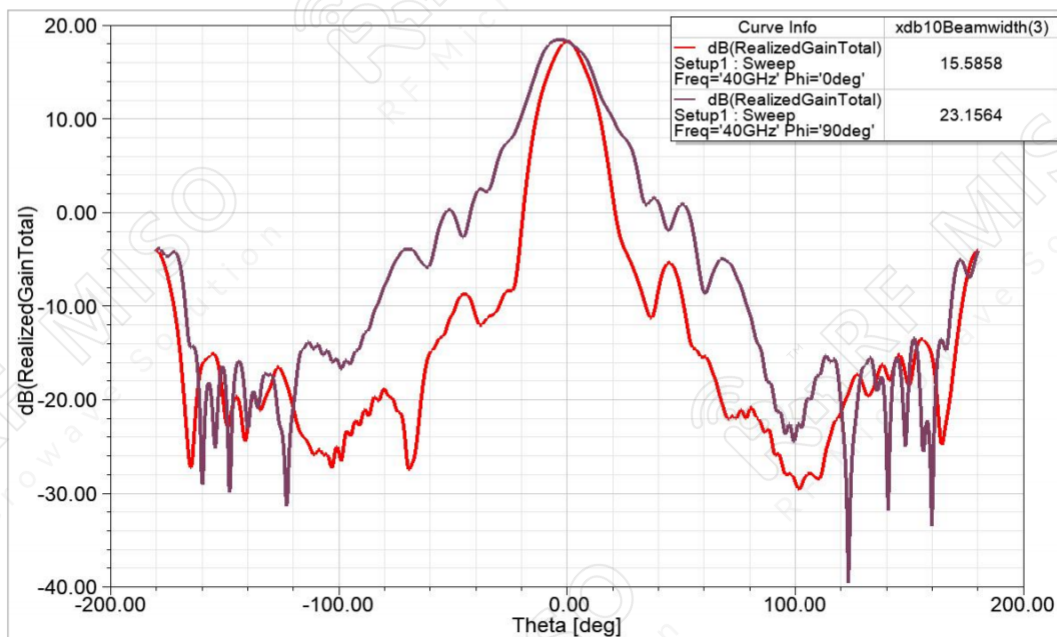
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34GHz



40GHz