RF MISO
RF Microwave Solution

Dual Circular Polarized Horn Antenna
20dBi Typ. Gain, 10.5-14.5GHz Frequency Range

Dual Circular Polarized Horn Antenna Data Sheet

RM-DCPHA105145-20

Features

- Coaxial Adapter for RF Inputs
- High Gain
- Strong Anti-interference
- High Transfer Rate
- Dual Circular Polarized
- Small Size

Descriptions

RF MISO's **Model RM-DCPHA105145-20** is a dual circular polarized horn antenna that operates from 10.5 to 14.5GHz, The antenna offers 20 dBi typical gain. The antenna VSWR below 1.5. The antenna RF ports are 2.92-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-DCPHA105145-20		
Parameters	Typical	Units
Frequency Range	10.5-14.5	GHz
Gain	20 Typ.	dBi
VSWR	<1.5 Typ.	
Polarization	Dual-Circular-polarized	
AR	<0.98	dB
Cross polarization	>30	dB
Port Isolation	>30	dB
Size	436.7*154.2*132.9	mm
Weight	1.34	kg

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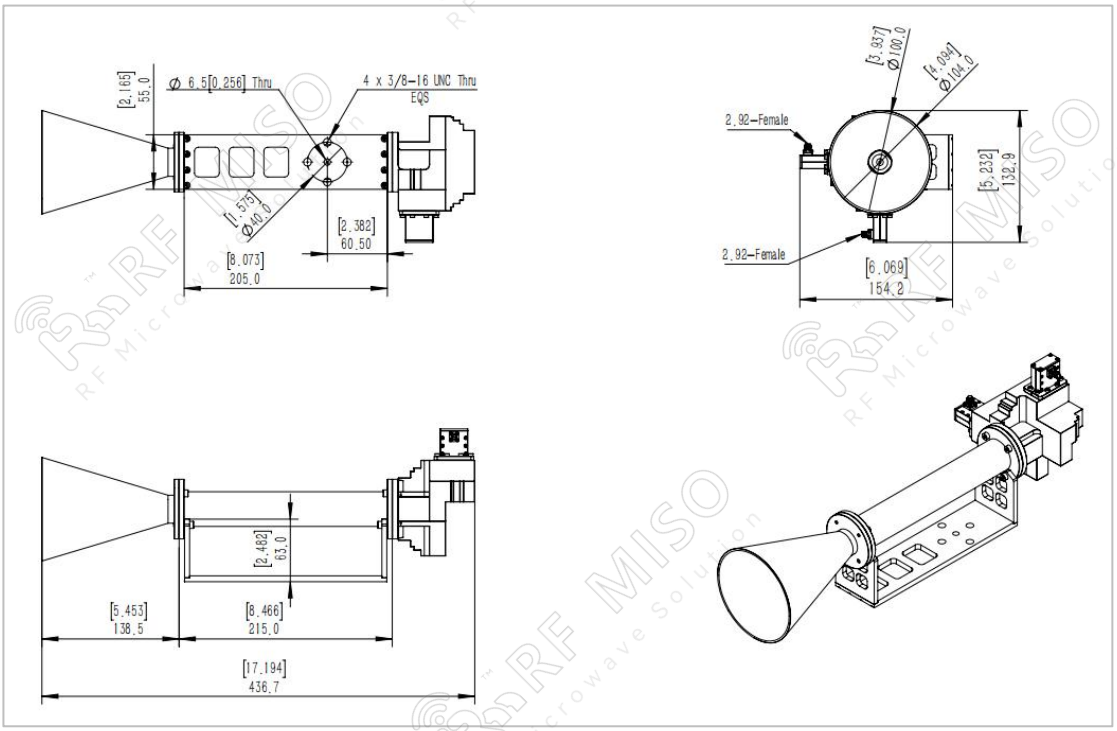
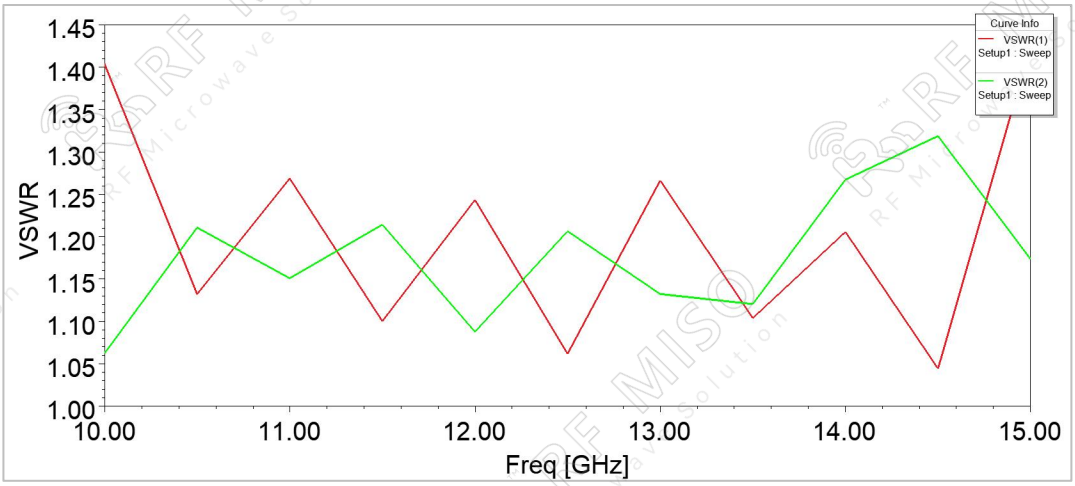
Outline Drawing



Simulation Results:

VSWR



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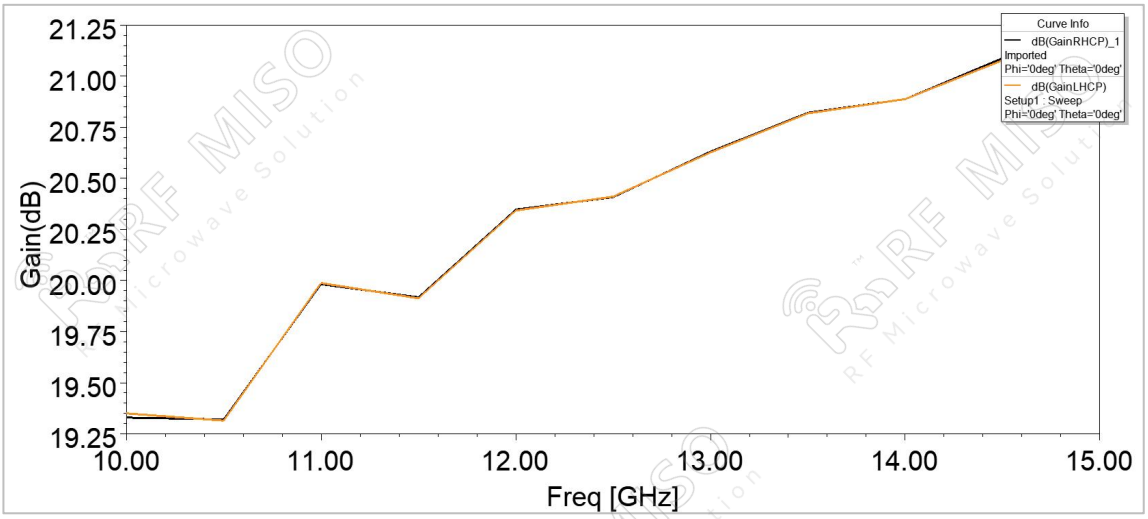
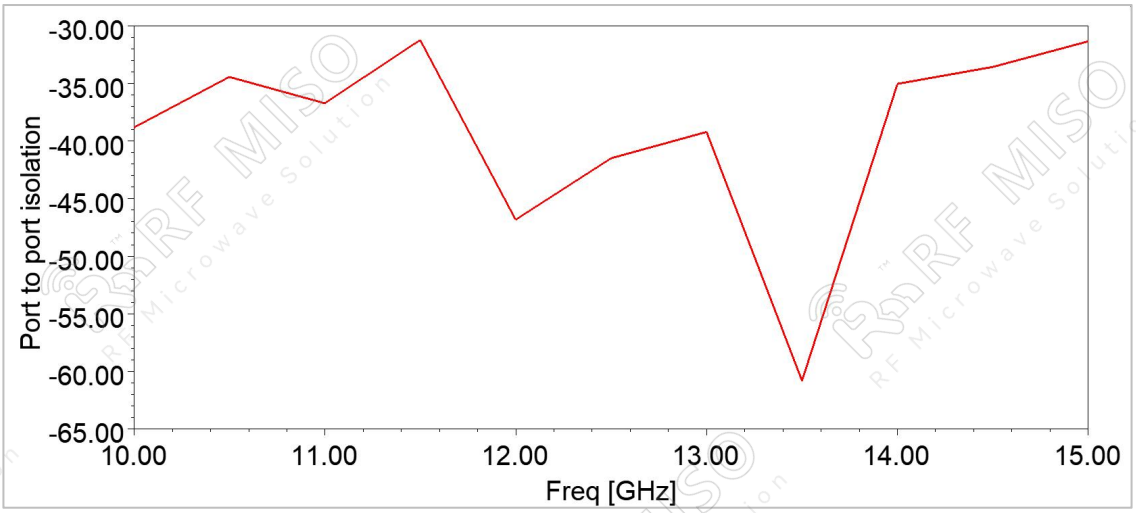
Gain



Port Isolation



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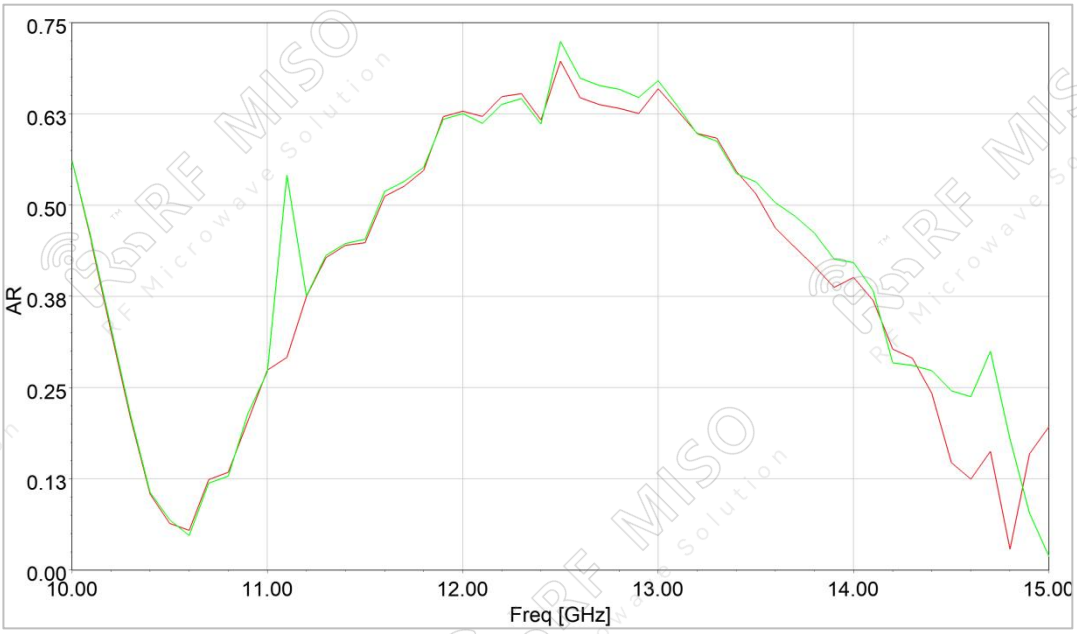
XPD

Curve Info
dB(GainLHCP)-dB(GainRHCP)
Auto1 : Sweep
Phi='0deg' Theta='0deg'
dB(GainLHCP)-dB(GainRHCP)
-25.00
-30.00
-35.00
-40.00
-45.00
-50.00
-55.00
-60.00
10.00
11.00
12.00
13.00
14.00
15.00
Freq [GHz]

AR


AR
0.75
0.63
0.50
0.38
0.25
0.13
0.00
10.00
11.00
12.00
13.00
14.00
15.00
Freq [GHz]

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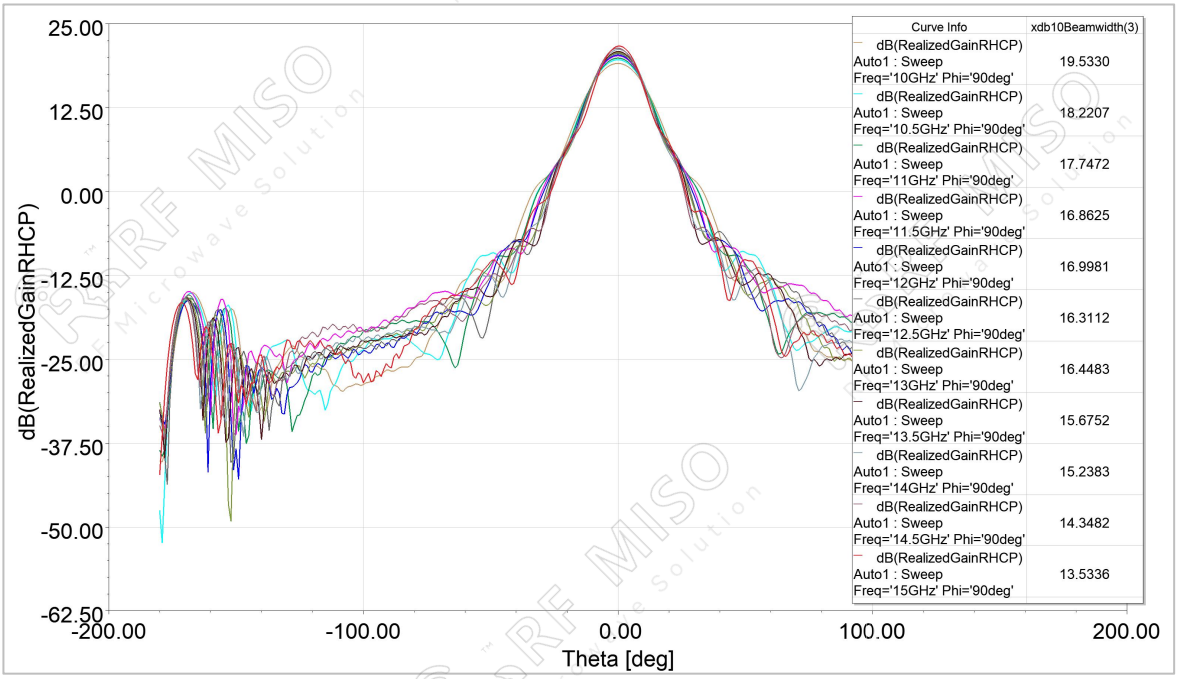
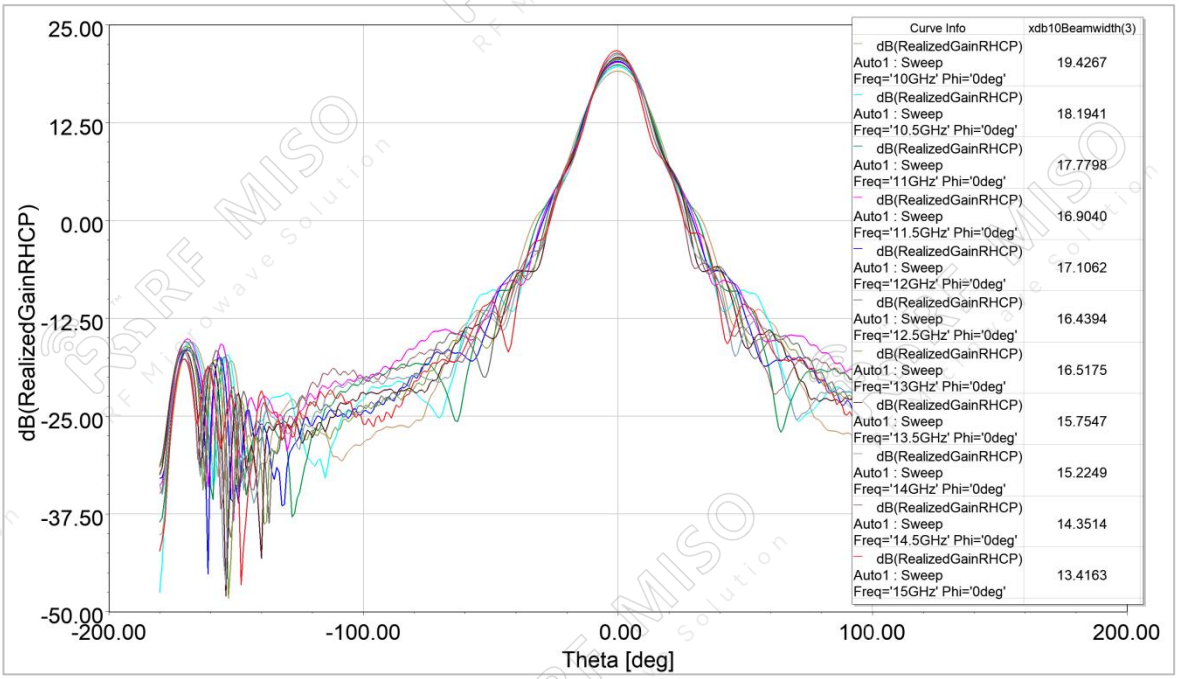
Gain Pattern





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