

*Conical Dual Polarized Horn Antenna
20 dBi Typ. Gain, 93-100 GHz Frequency Range*

Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA93100-20

Features

- Low VSWR
- High Isolation
- Small Size
- Dual Linear Polarized
- High Gain

Descriptions

RF MISO's **Model RM-CDPHA93100-20** is a dual polarized horn antenna that operates from 93 to 100 GHz, The antenna offers 20dBi typical gain. The antenna VSWR is typical 1.3:1. The antenna can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

Specifications

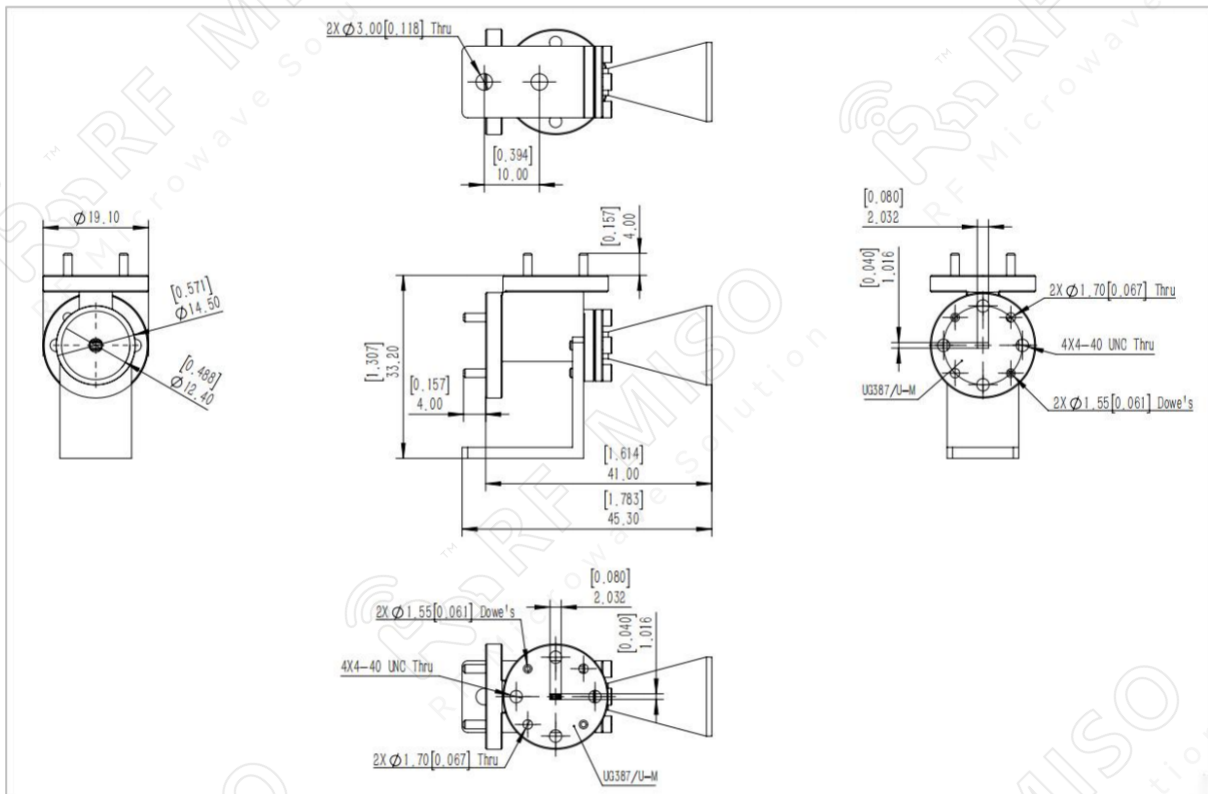
Parameters	Typical	Units
Frequency Range	93-100	GHz
Gain	20 Typ.	dBi
VSWR	1.3 Typ.	
Polarization	Dual Linear	
Cross Pol. Isolation	60 Typ.	dB
Waveguide	WR10	
Material	Cu	
Finishing	Golden	
Size (L*W*H)	45.3*19.1*33.2 (±5)	mm
Weight	0.035	kg

Conical Dual Polarized Horn Antenna
20 dBi Typ. Gain, 93-100 GHz Frequency Range

Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA93100-20

Outline Drawing



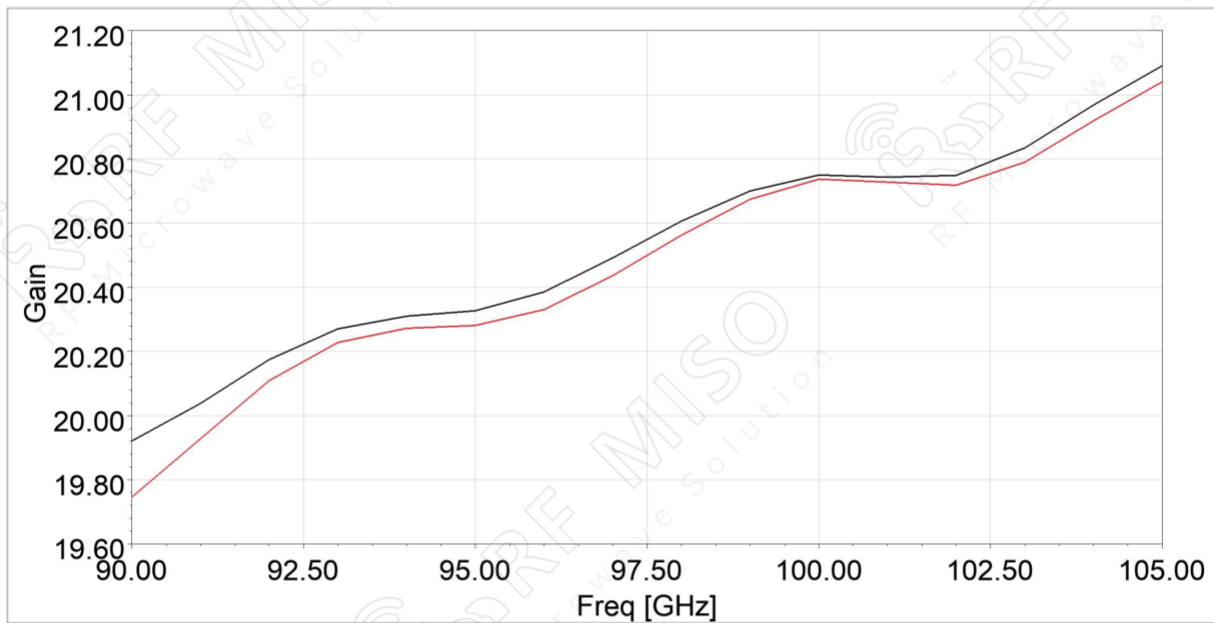
*Conical Dual Polarized Horn Antenna
20 dBi Typ. Gain, 93-100 GHz Frequency Range*

Conical Dual Polarized Horn Antenna Data Sheet

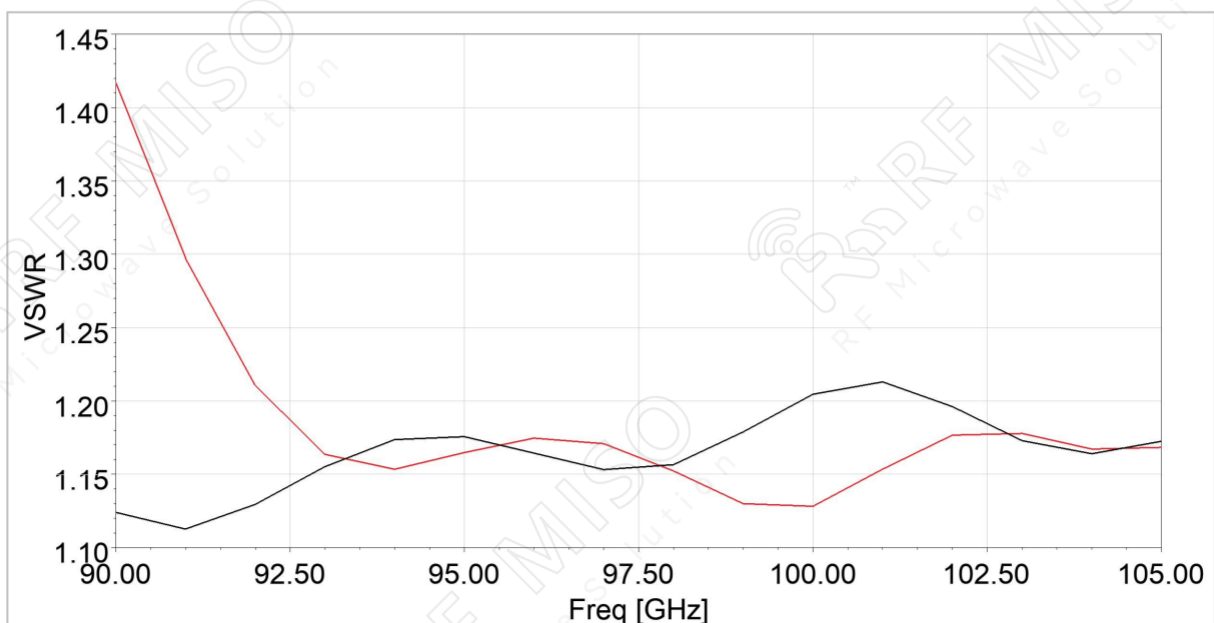
RM-CDPHA93100-20

Simulation Data

Gain



VSWR

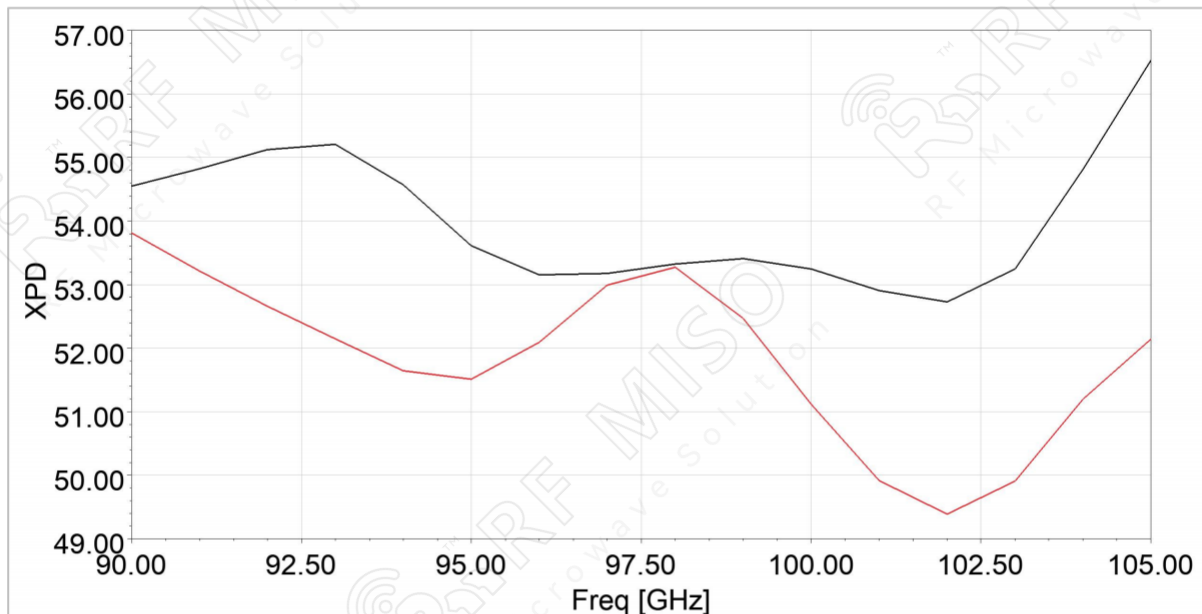


Conical Dual Polarized Horn Antenna
20 dBi Typ. Gain, 93-100 GHz Frequency Range

Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA93100-20

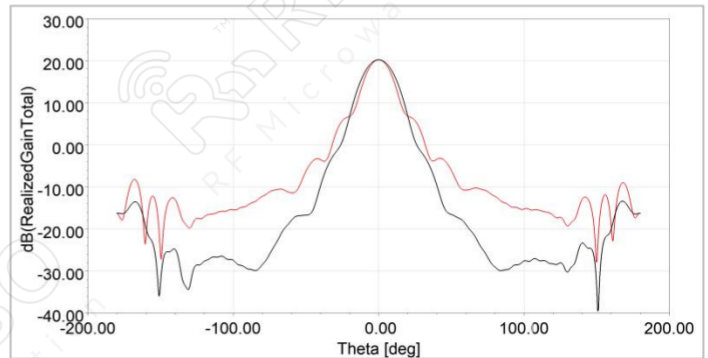
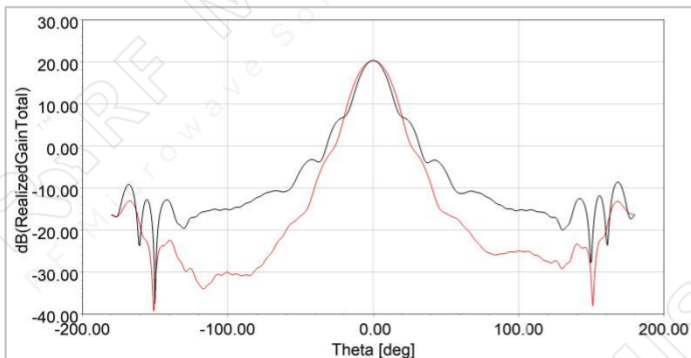
Cross Polarization Isolation



Gain Pattern

Port 1 @ 93GHz
3dB beam-width_E plane: 19.27, H plane: 16.09

Port 2 @ 93GHz
3dB beam-width_E plane: 16.09, H plane: 19.29



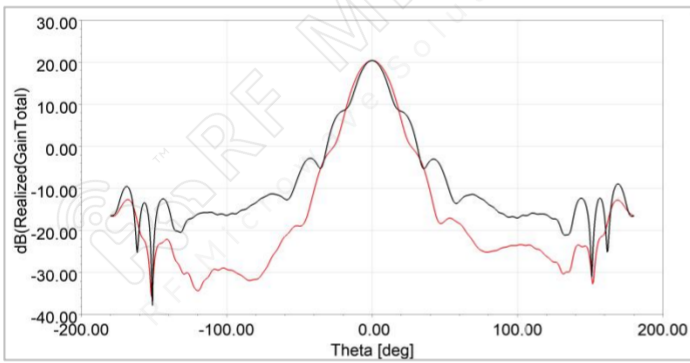
Conical Dual Polarized Horn Antenna
20 dBi Typ. Gain, 93-100 GHz Frequency Range

Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA93100-20

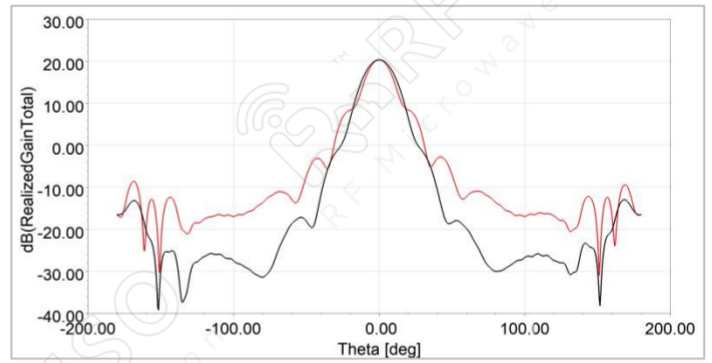
Port 1 @ 96GHz

3dB beam-width_E plane: 18.74, H plane: 15.55



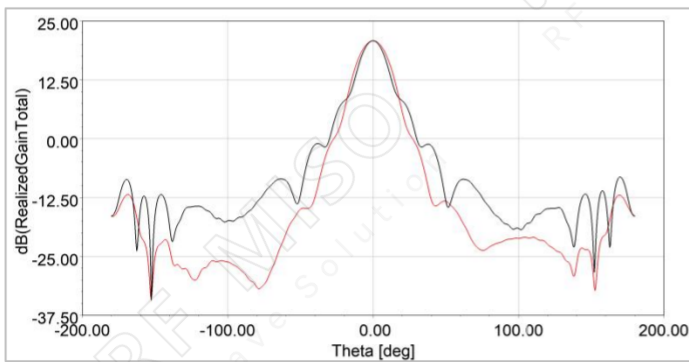
Port 2 @ 96GHz

3dB beam-width_E plane: 15.58, H plane: 18.77



Port 1 @ 100GHz

3dB beam-width_E plane: 17.99, H plane: 15.03



Port 2 @ 100GHz

3dB beam-width_E plane: 15.06, H plane: 18.00

