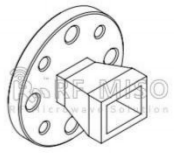
RF MISO
RF Microwave Solution

Standard Gain Horn Antenna
15dBi Typ. Gain, 75-110 GHz Frequency Range



Standard Gain Horn Antenna Data Sheet

RM-SGHA10-15

Features

- Wave-guide and Connector Interface
- Low Side-lobe
- Linear Polarization
- High Return Loss

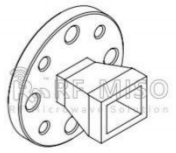
Descriptions

RF MISO's **Model RM-SGHA10-15** is a linear polarized standard gain horn antenna that operates from 75 to 110 GHz. The antenna offers a typical gain of 15dBi and low VSWR 1.15:1. The antenna has a typical 3dB beamwidth of 37.59 degrees on the E plane and 34.11 degrees on H plane. This antenna has flange input and coaxial input for customers to rotate.

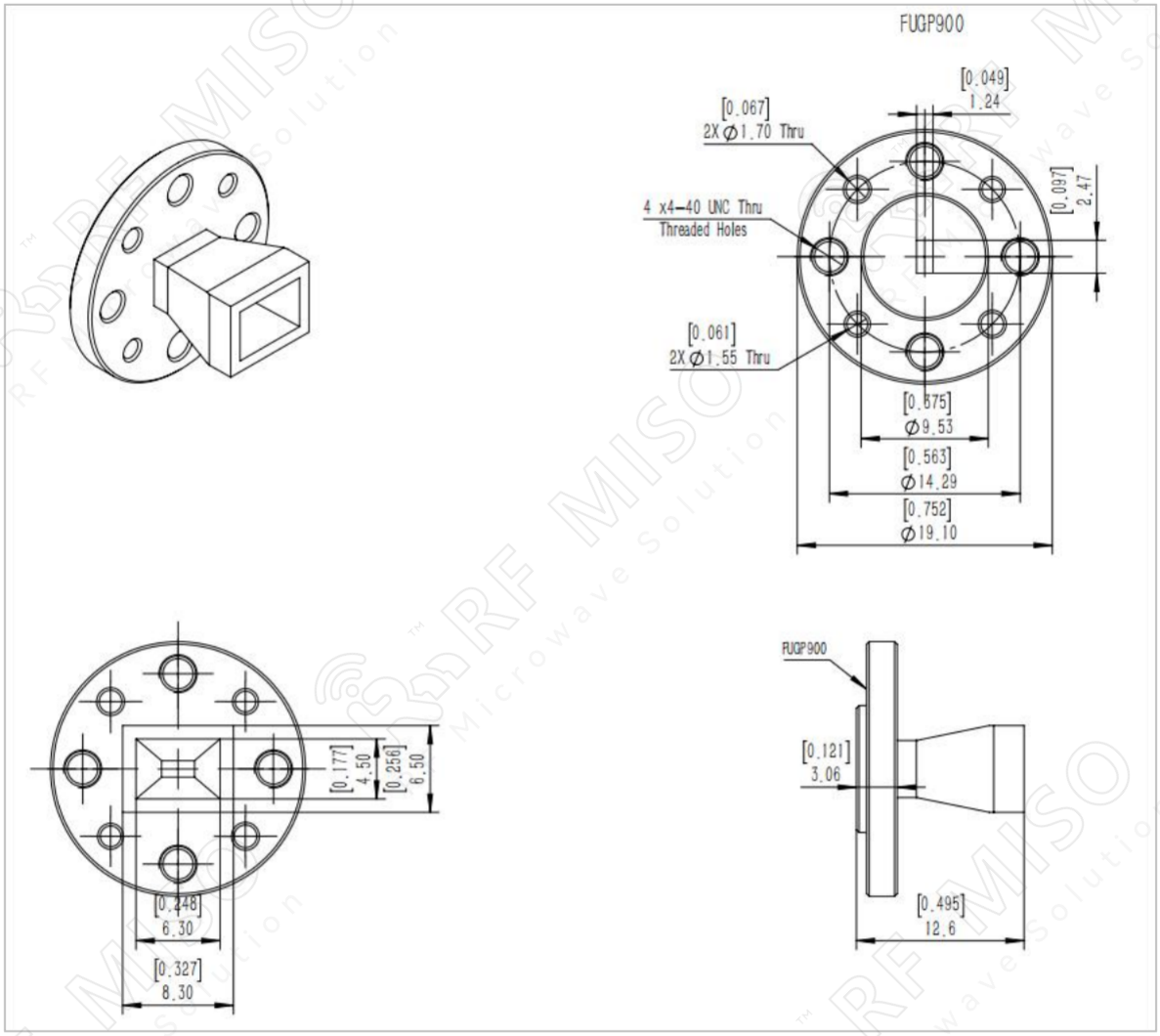
Specifications

Parameters	Specification		Unit
Frequency Range	75-110		GHz
Wave-guide	WR10		
Gain	15 Typ.		dBi
VSWR	1.15 Typ.		
Polarization	Linear		
Cross Polarization Isolation	65		dB
3 dB Beamwidth, E-Plane	37.59° Typ.		
3 dB Beamwidth, H-Plane	34.11° Typ.		
Interface	FUGP900 (F Type)	1.0mm-Female (C Type)	
Material	Cu		
Finishing	Gold Plate		
C Type Size (L*W*H)	30.1*19.1*19.1 (±5)		mm
Weight	0.002(F Type)	0.008(C Type)	kg
C Type Average Power	3		W
C Type Peak Power	5		W
Operating Temperature	-40° ~+85°		° C

Website: www.rf-miso.com **Email**: info@rf-miso.com **Tel**: +86 028 8269517.37

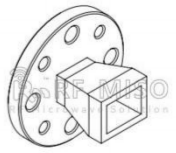


F-Type Mechanical Drawing (P/N: RM-SGHA10-15F)



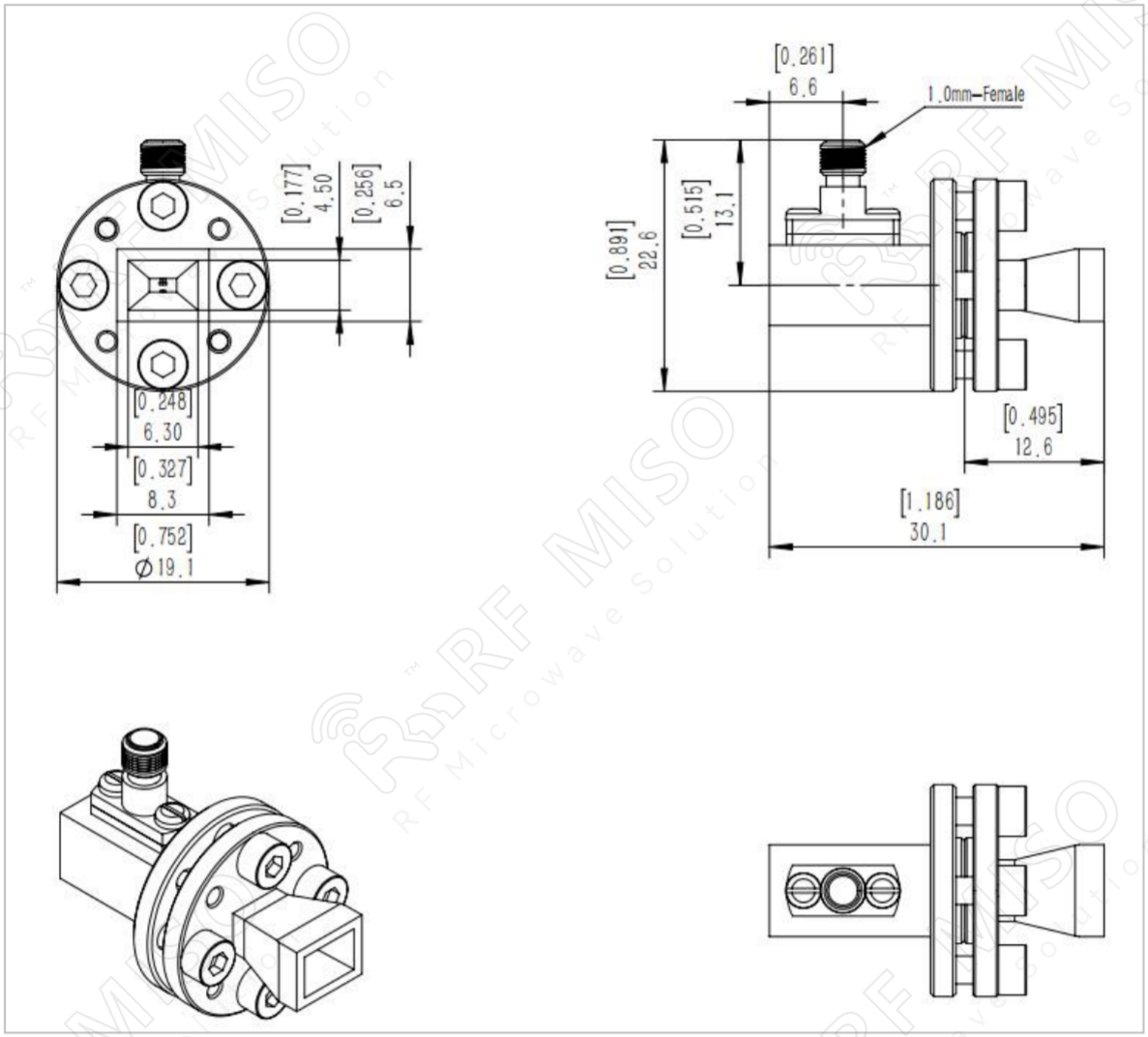
Website: www.rf-miso.com **Email**: info@rf-miso.com **Tel**: +86 028 8269517.37

Standard Gain Horn Antenna
15dBi Typ. Gain, 75-110 GHz Frequency Range



Standard Gain Horn Antenna Data Sheet RM-SGHA10-15

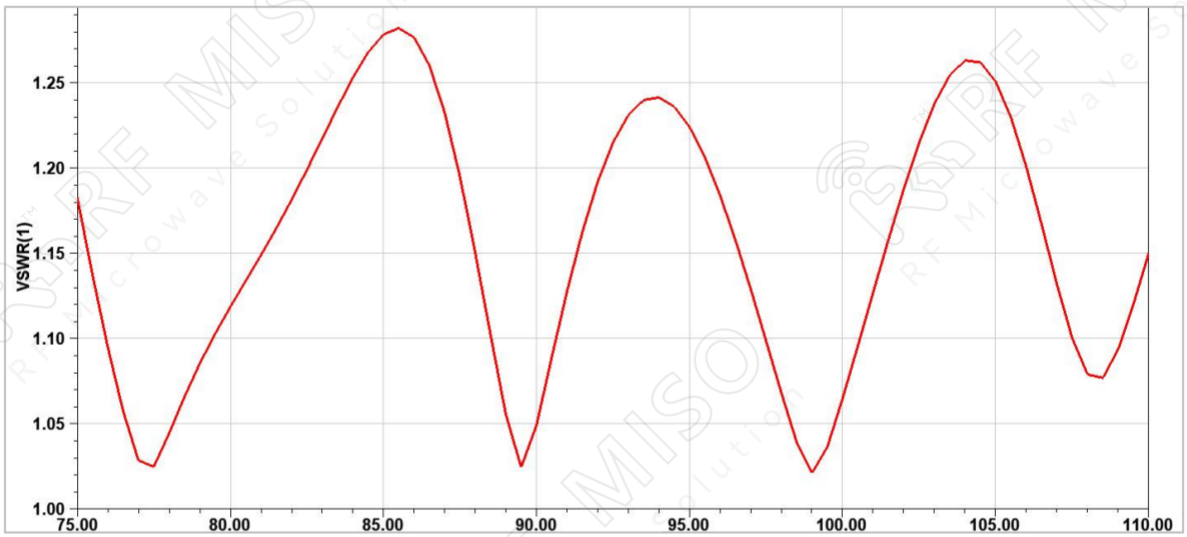
C-Type Mechanical Drawing (P/N: RM-SGHA10-15C)



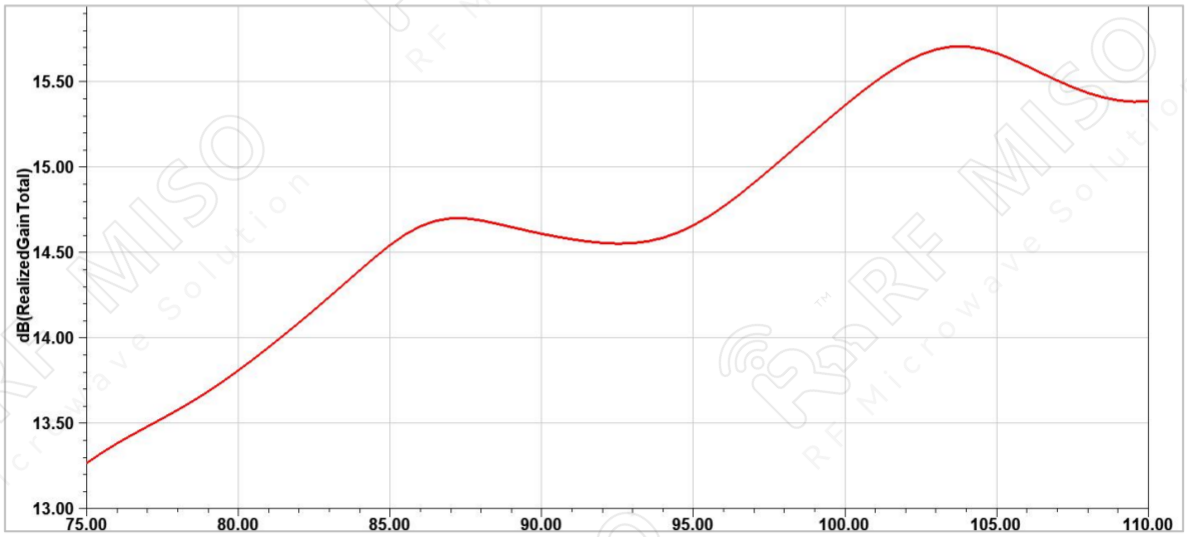
Website: www.rf-miso.com **Email**: info@rf-miso.com **Tel**: +86 028 8269517.37

Simulation Result

VSWR

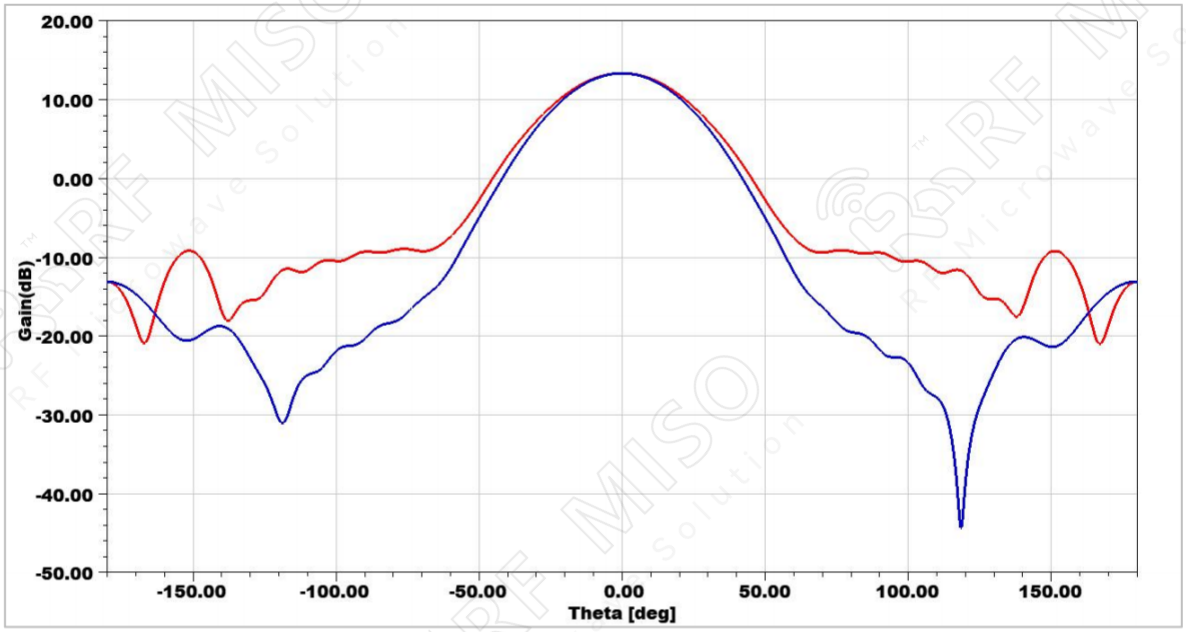


Gain

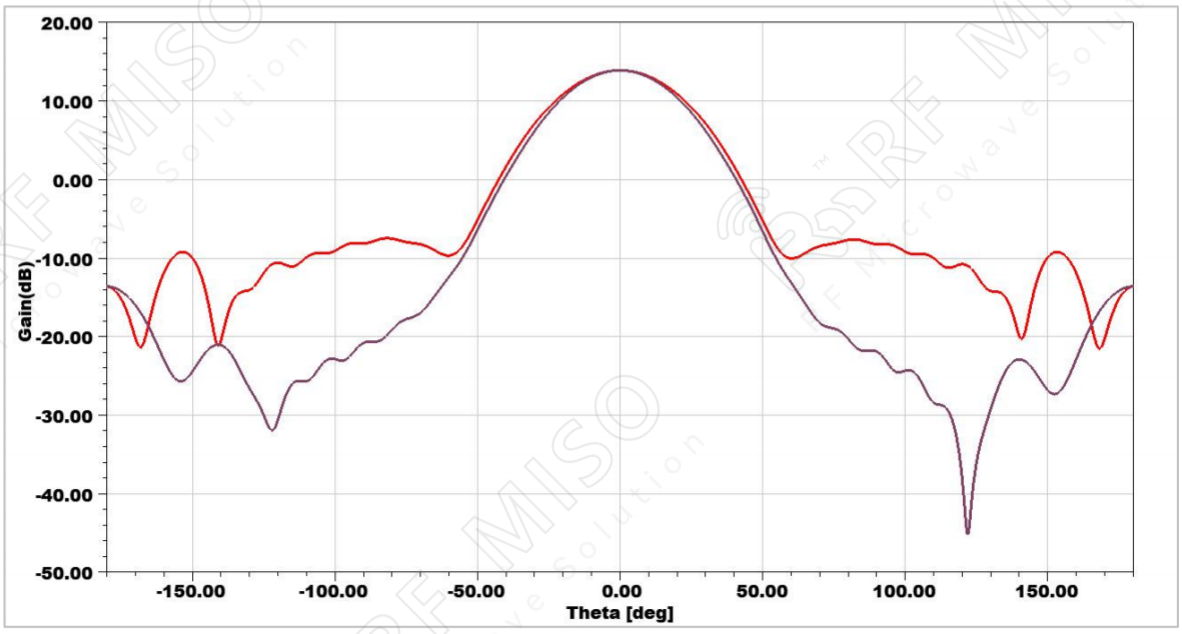


Gain Plot

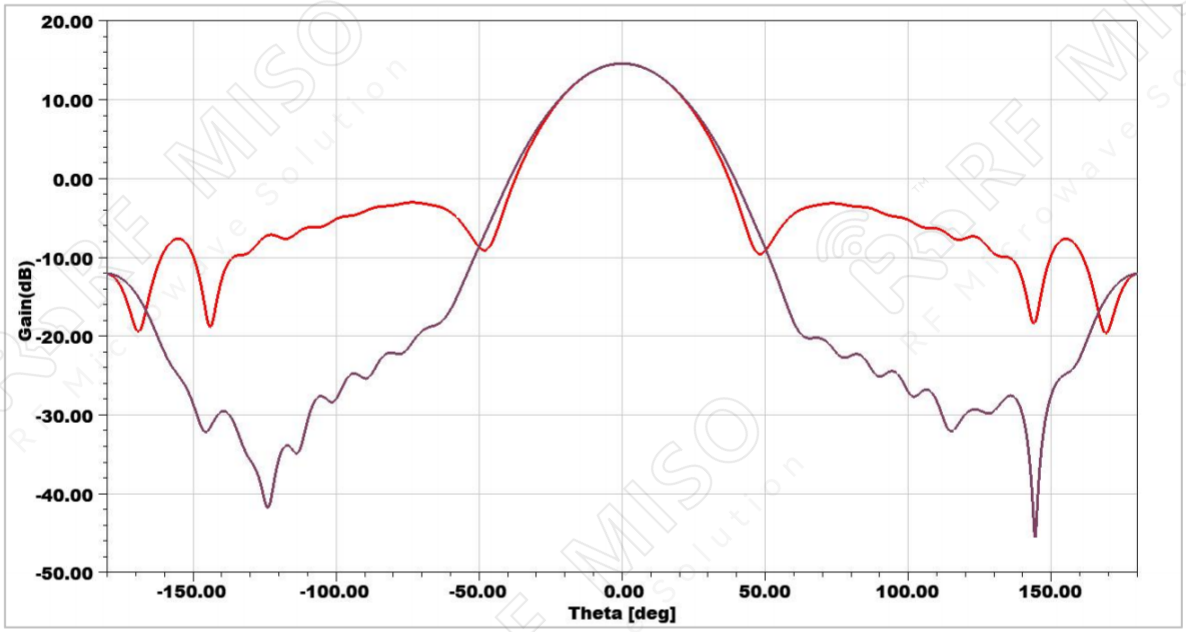
3dB beam-width_E plane: 41.72, H plane: 39.17 @75GHz



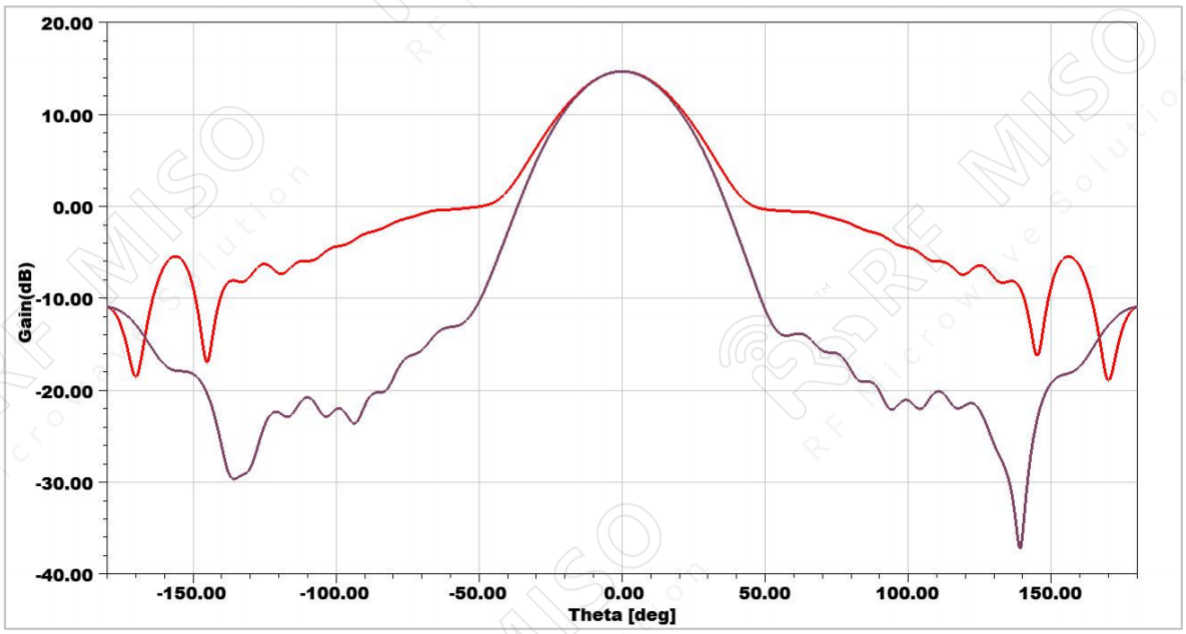
3dB beamwidth _E plane: 39.87, H plane: 37.19 @80GHz



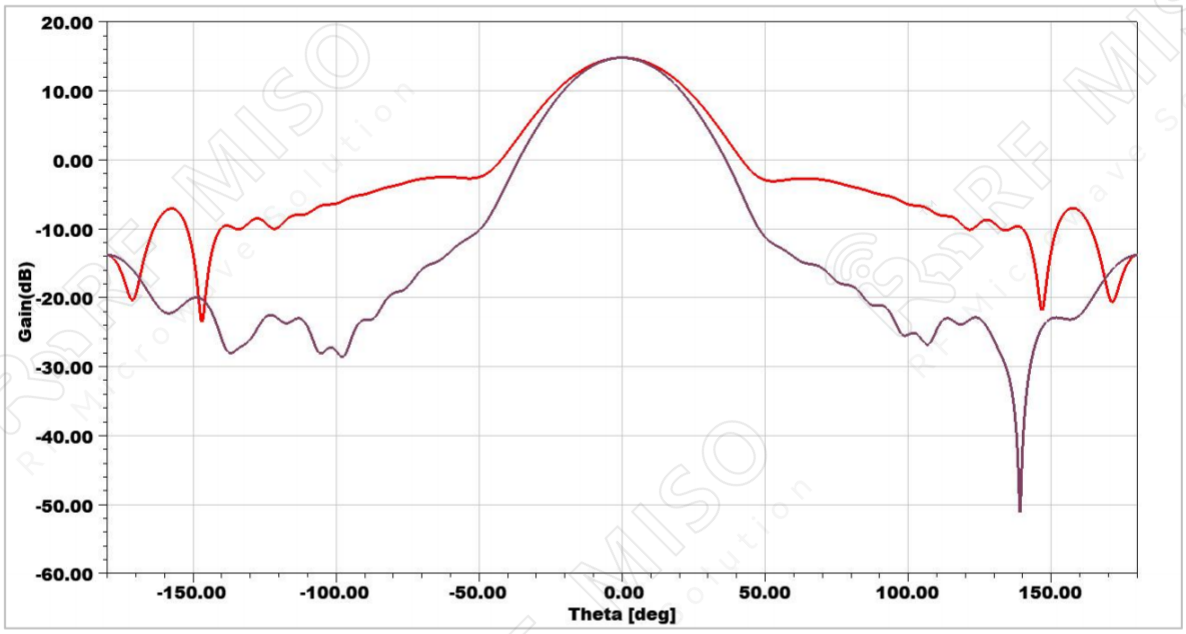
3dB beamwidth_E plane: 35.34, H plane: 35.73 @85GHz



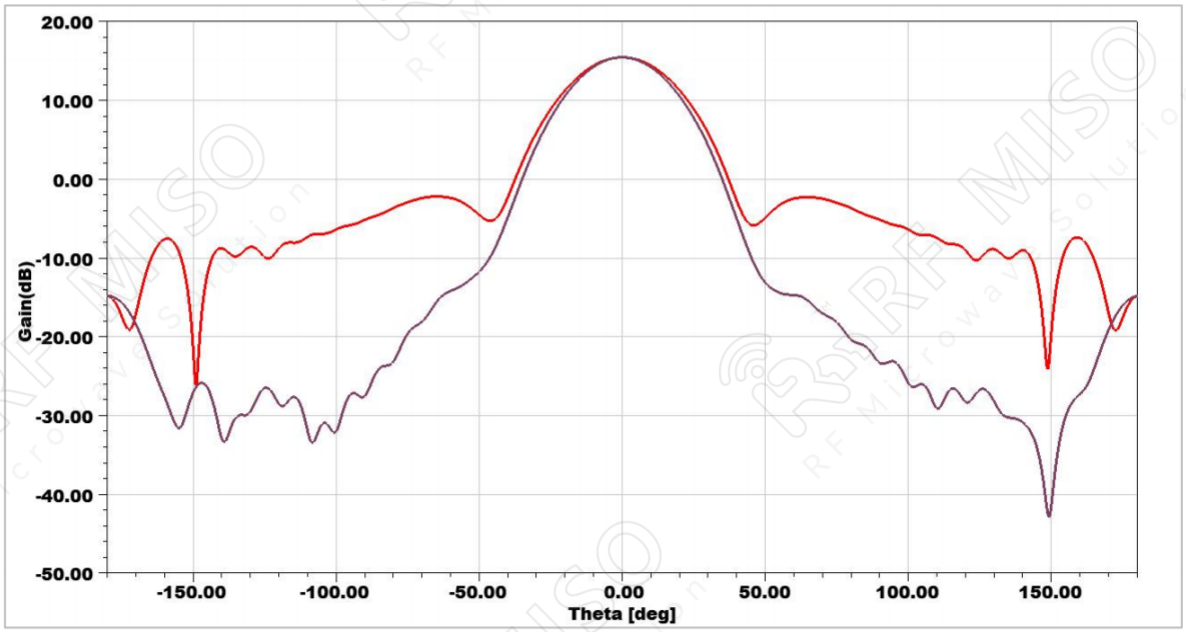
3dB beamwidth_E plane: 35.02, H plane: 33.43 @90GHz



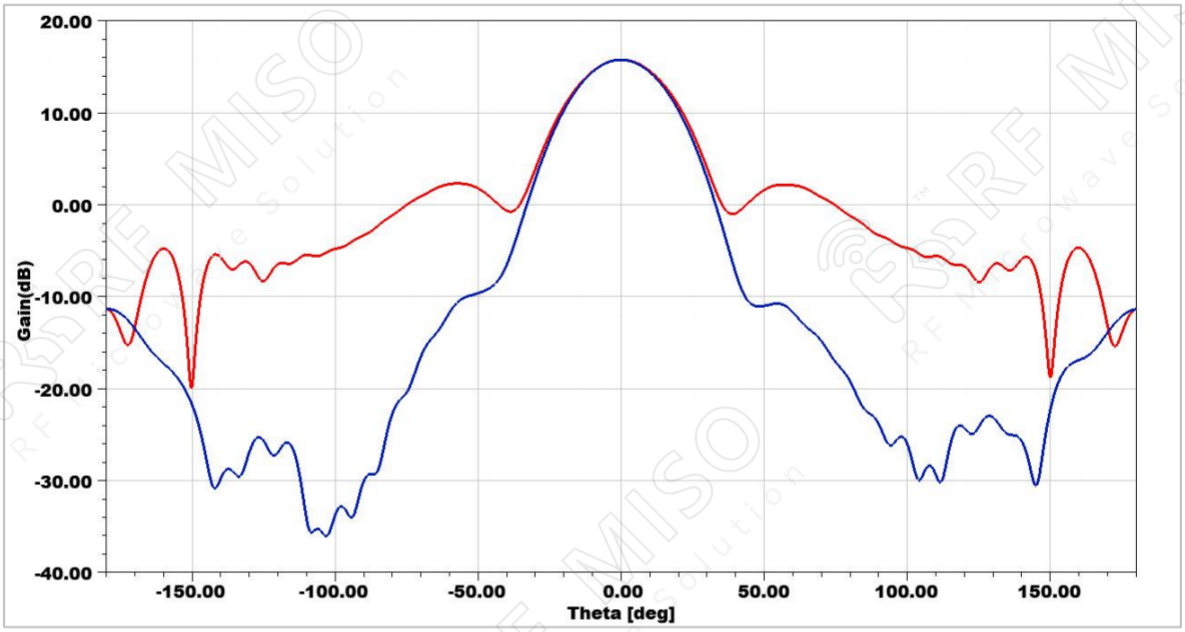
3dB beamwidth_E plane: 36.42, H plane: 32.53 @95GHz



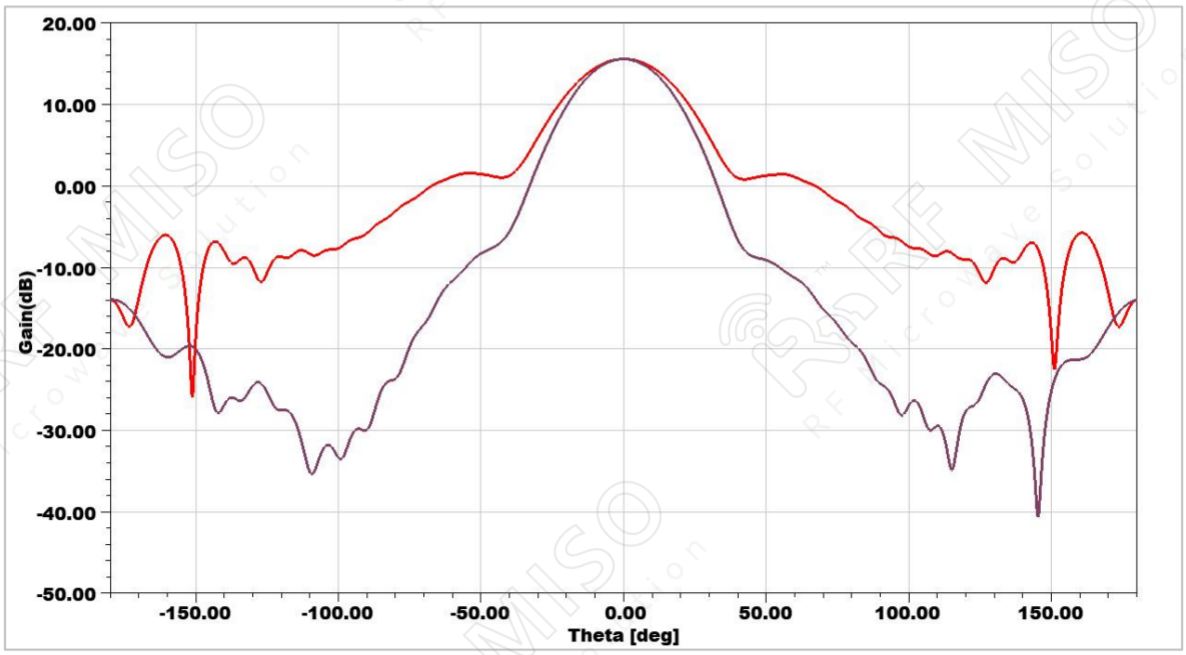
3dB beamwidth_E plane: 33.92, H plane: 31.28 @100GHz



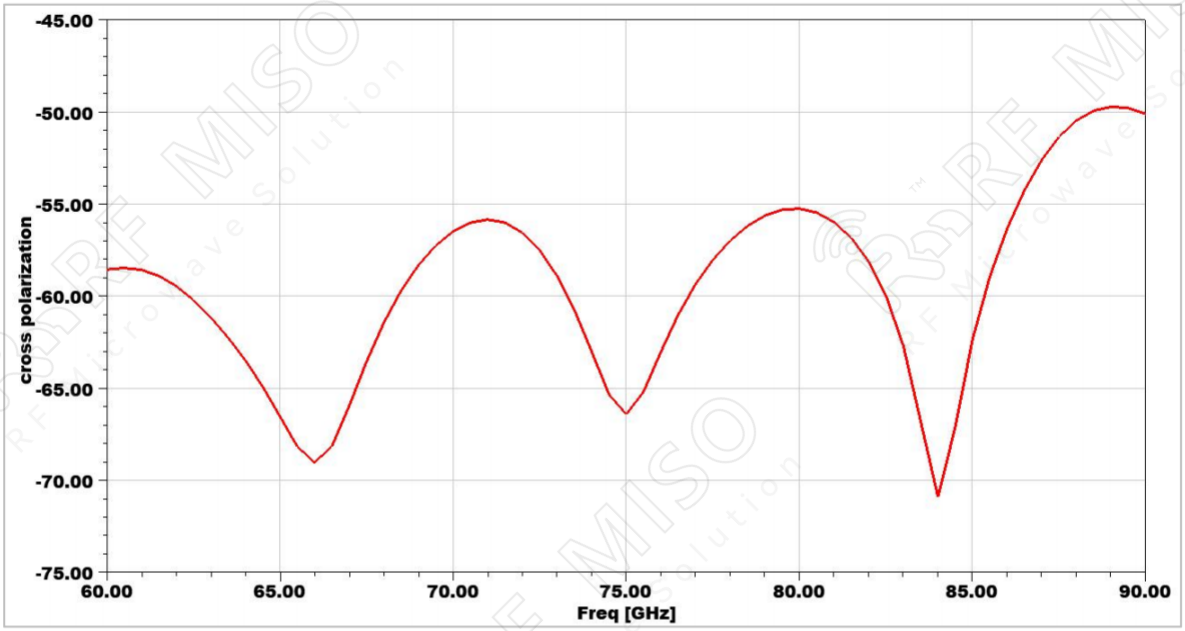
3dB beamwidth_E plane: 31.1, H plane: 29.77 @105GHz



3dB beamwidth_E plane: 33.46, H plane: 29.05 @110GHz



Cross polarization isolation



Note:

- If the data presented is simulated. Actual data may vary unit to unit, slightly.
- Any foreign objects in the wave-guide will cause performance degradation and possible device damage.
- We can customize antennas according to your specific needs.