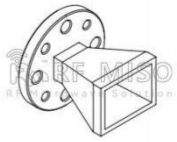
RF MISO
RF Microwave Solution

Standard Gain Horn Antenna
17dBi Typ. Gain, 60-90 GHz Frequency Range



Standard Gain Horn Antenna Data Sheet — RM-SGHA12-17

Features

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

Descriptions

RF MISO's **Model RM-SGHA12-17** is a linear polarized standard gain horn antenna that operates from 60 to 90 GHz. The antenna offers a typical gain of 17 dBi and low VSWR 1.15:1. The antenna has a typical 3dB beamwidth of 25.38 degrees on the E plane and 24.77 degrees on H plane. This antenna has flange input and coaxial input for customers to rotate.

Specifications

Parameters	Specification		Unit
Frequency Range	60-90		GHz
Wave-guide	WR12		
Gain	17 Typ.		dBi
VSWR	1.15 Typ.		
Polarization	Linear		
Cross Polarization Isolation	60		dB
3 dB Beamwidth, E-Plane	25.38° Typ.		
3 dB Beamwidth, H-Plane	24.77° Typ.		
Interface	FUGP740 (F Type)	1.0mm-Female (C Type)	
Material	Cu		
Finishing	Gold Plate		
C Type Size (L*W*H)	35.8*19.1*19.1 (±5)		mm
Weight	0.003(F Type)	0.009(C Type)	kg
C Type Average Power	3		W
C Type Peak Power	5		W
Operating Temperature	-40° ~+85°		° C

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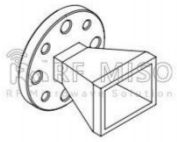
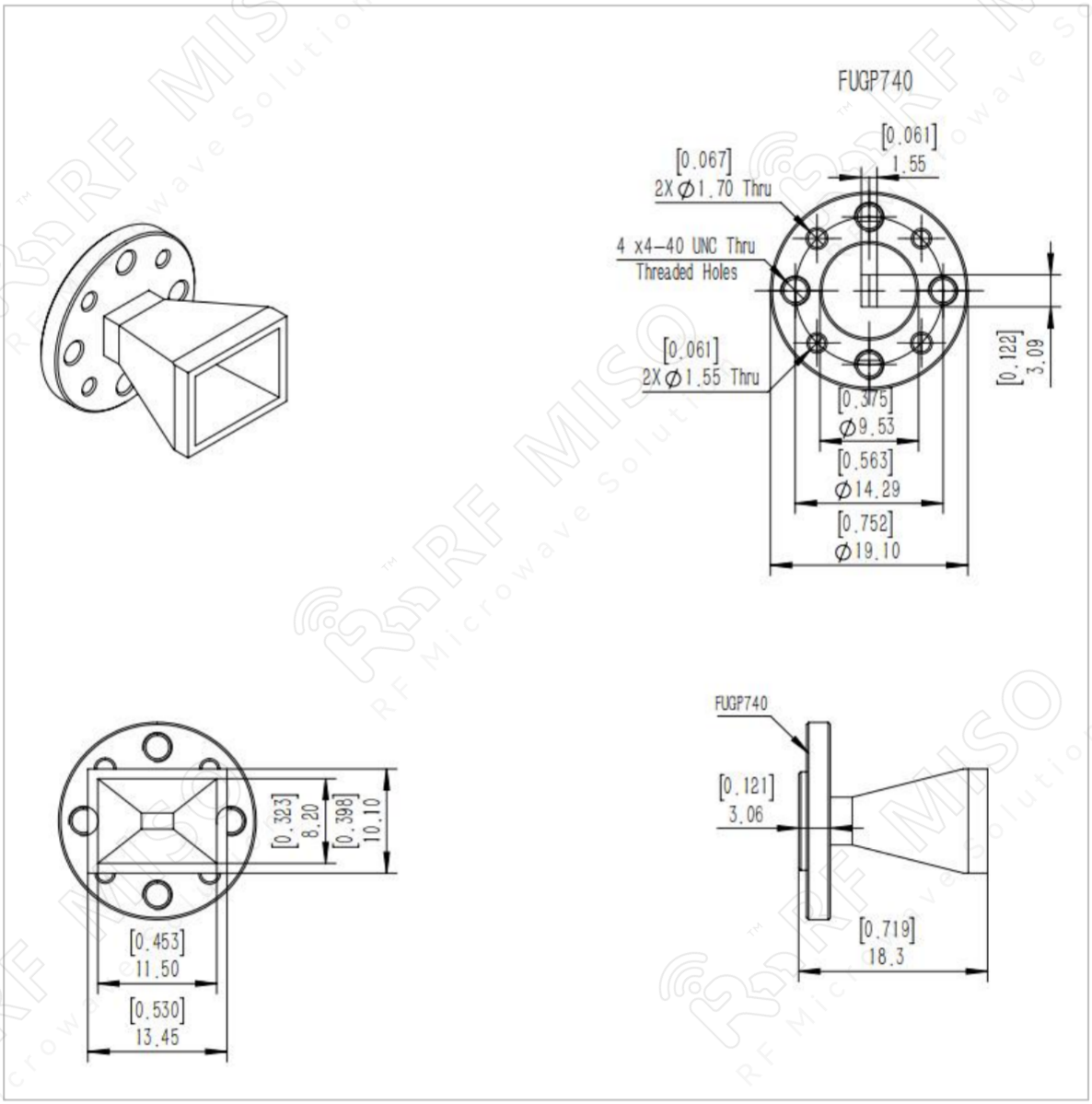


Standard Gain Horn Antenna Data Sheet RM-SGHA12-17

F-Type Mechanical Drawing (P/N: RM-SGHA12-17F)



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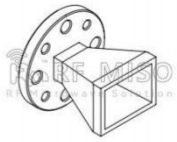
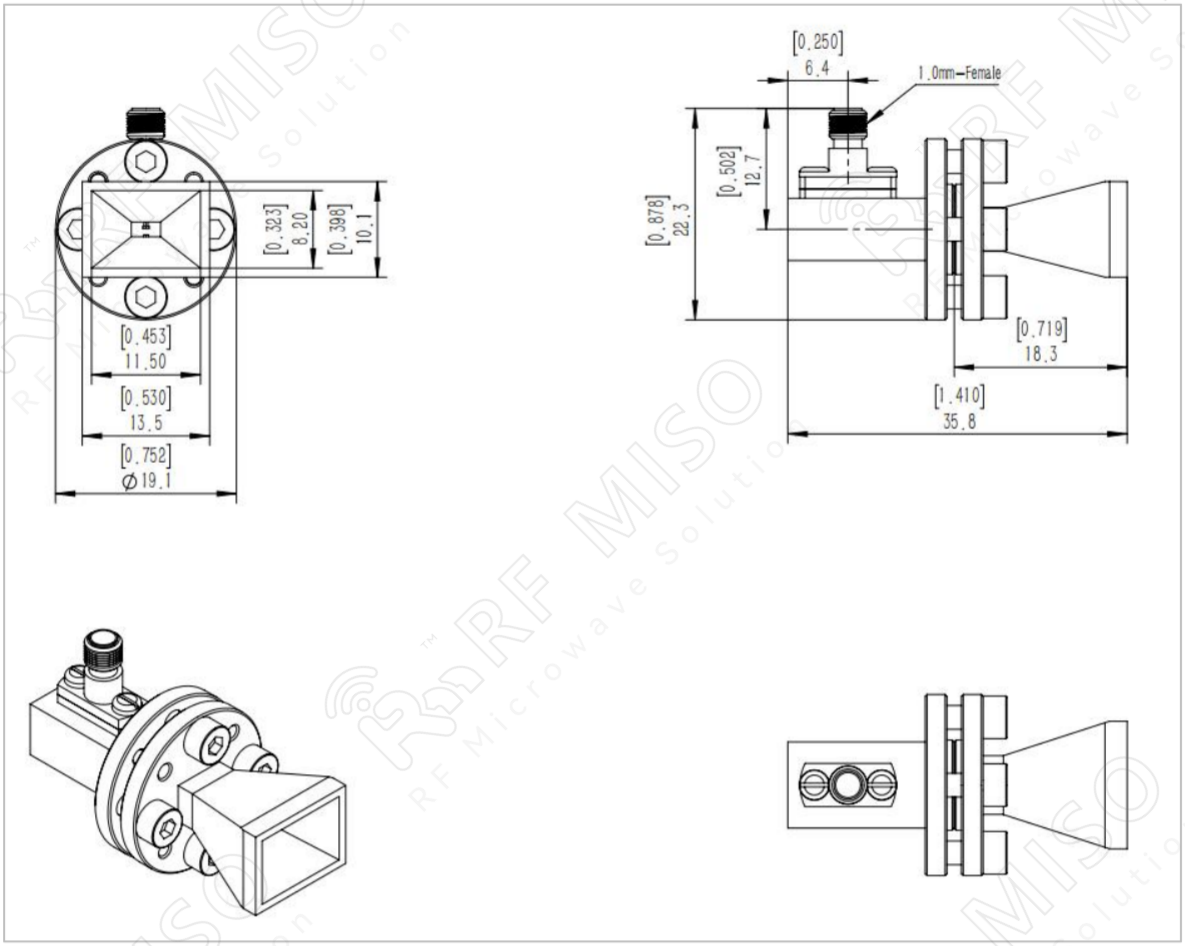


Standard Gain Horn Antenna Data Sheet RM-SGHA12-17

C-Type Mechanical Drawing (P/N: RM-SGHA12-17C)



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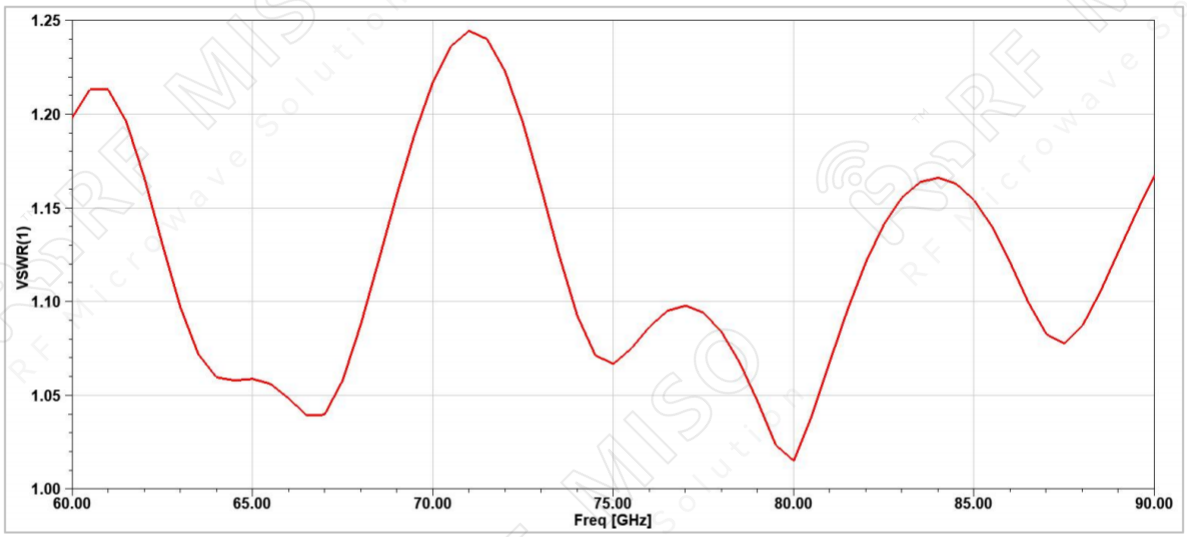
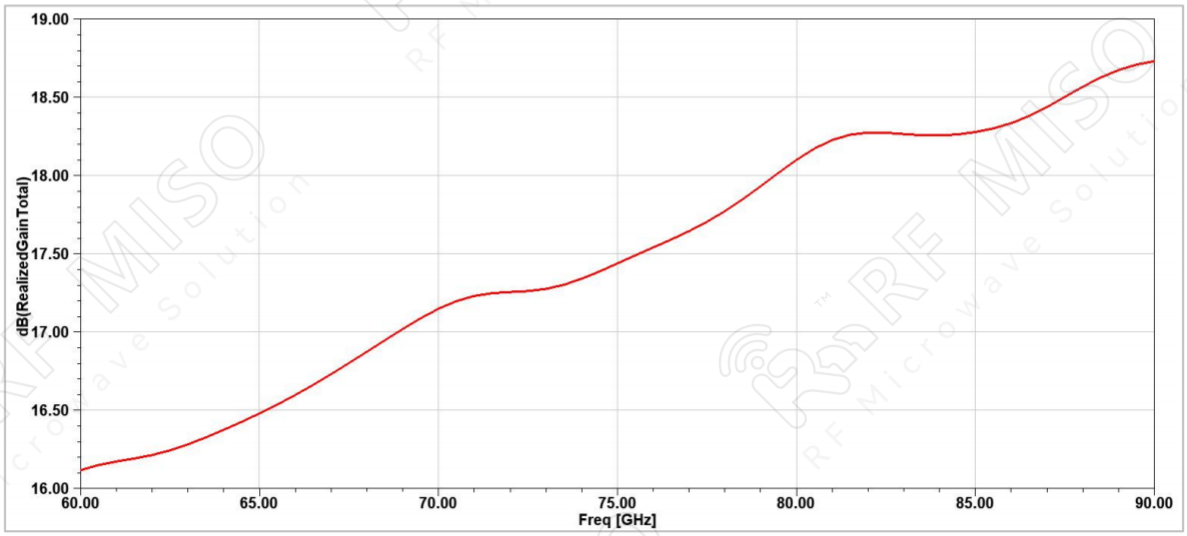
Simulation Result

VSWR



Gain



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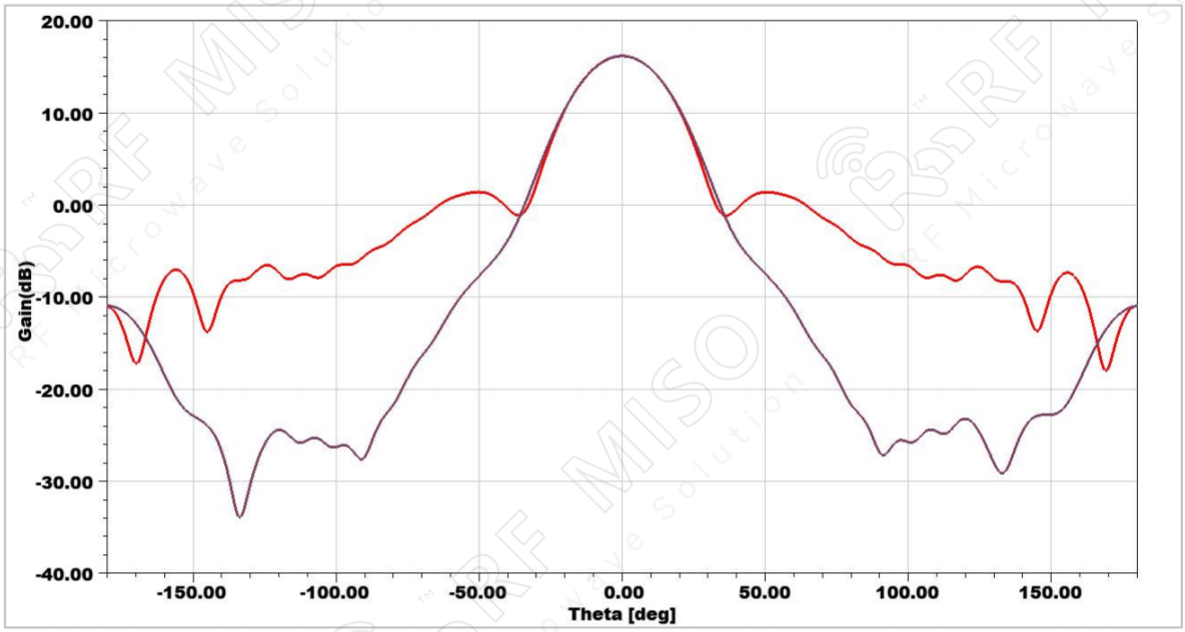
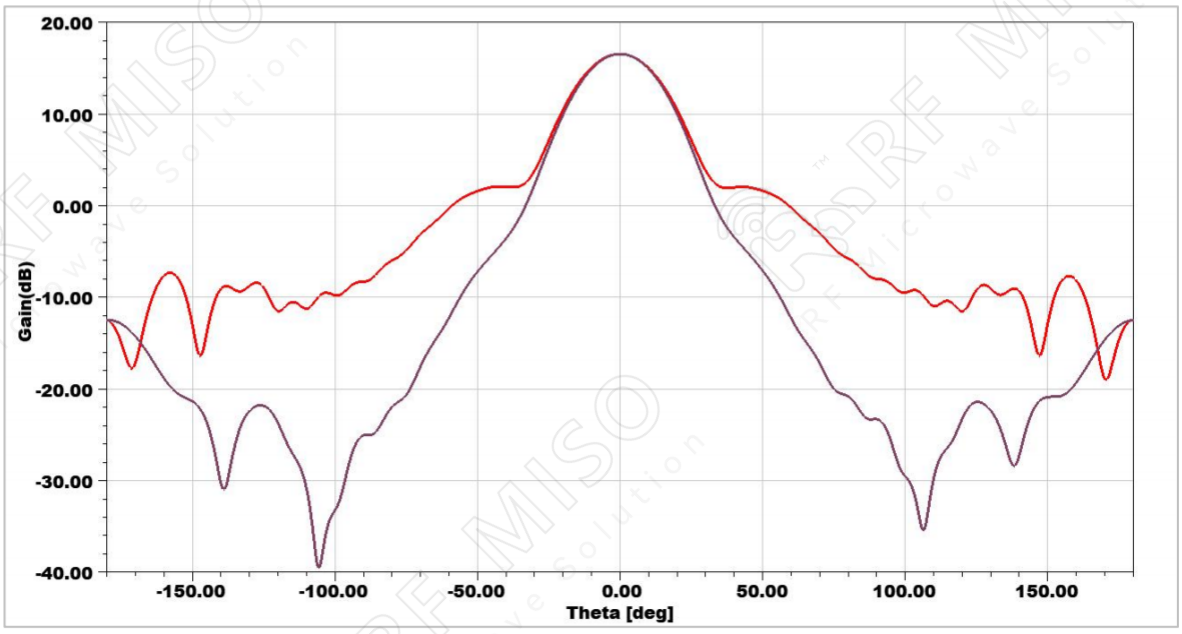
Gain Plot

3dB beam-width_E plane: 29.06, H plane: 28.98 @60GHz



3dB beam-width_E plane: 28.3, H plane: 27.04 @65GHz



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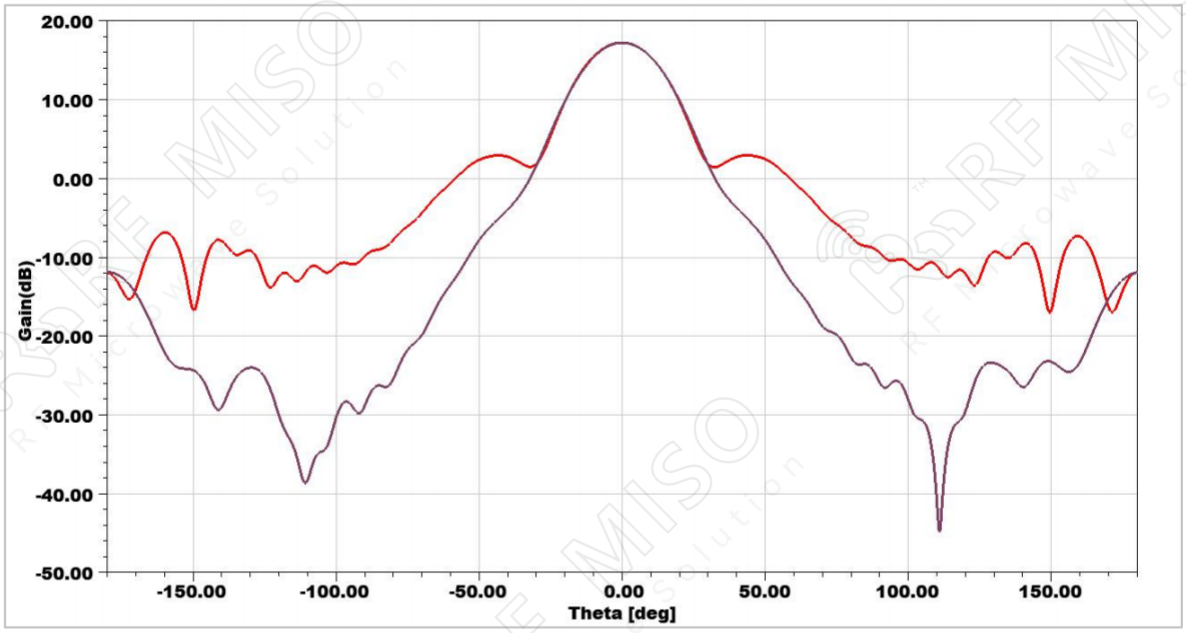
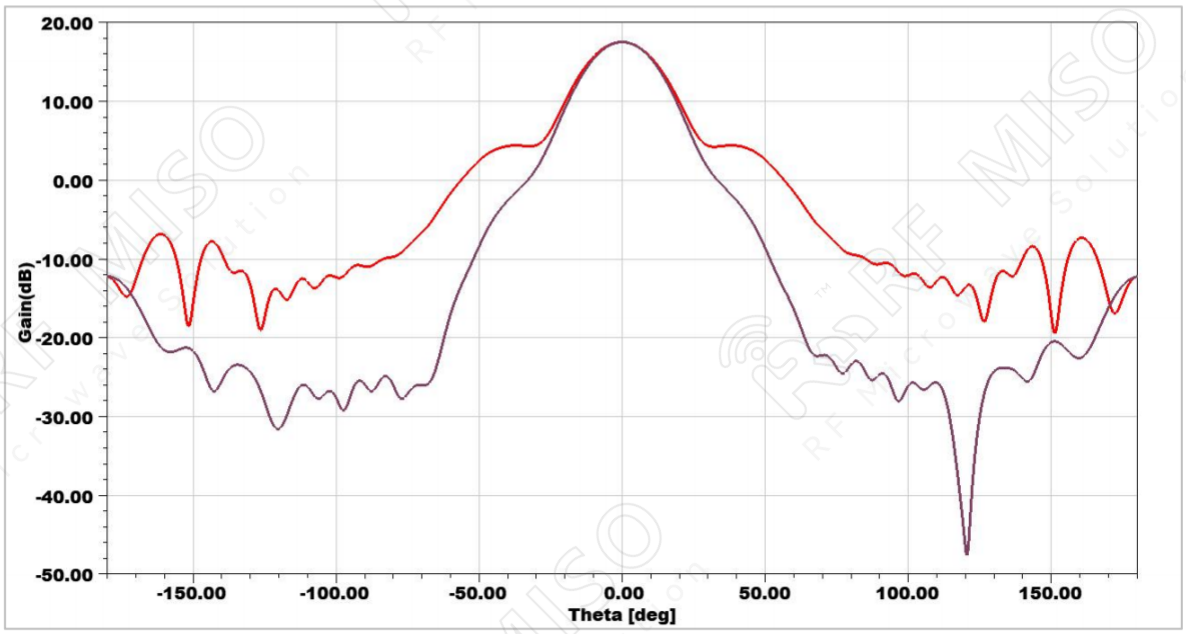
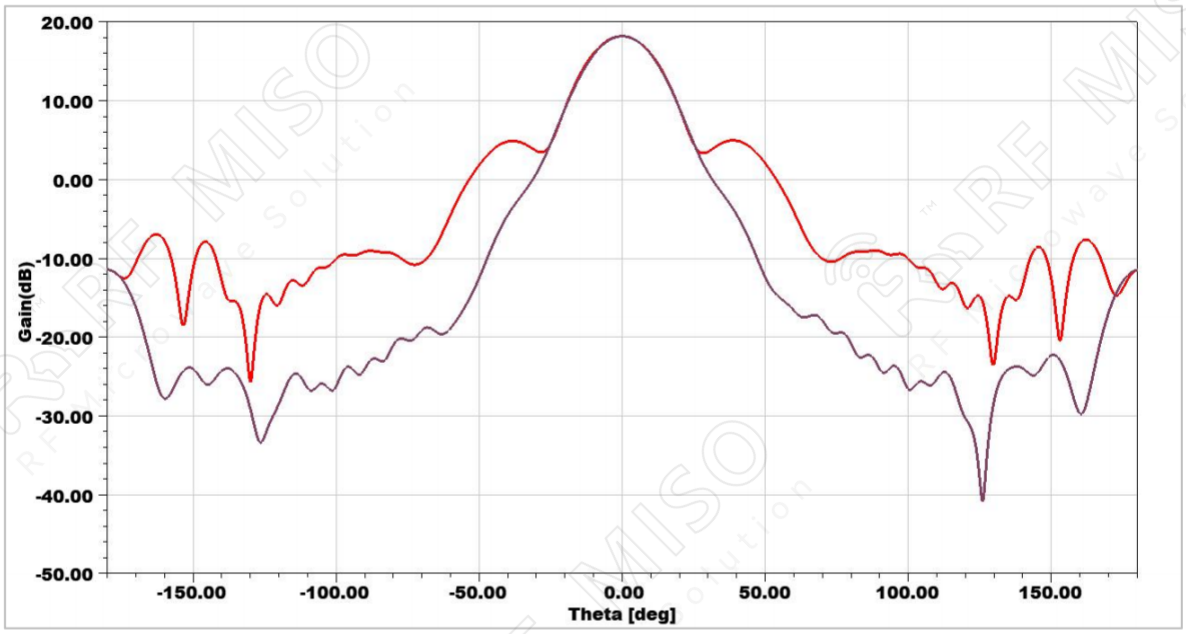
3dB beam-width_E plane: 25.8, H plane: 25.5 @70GHz



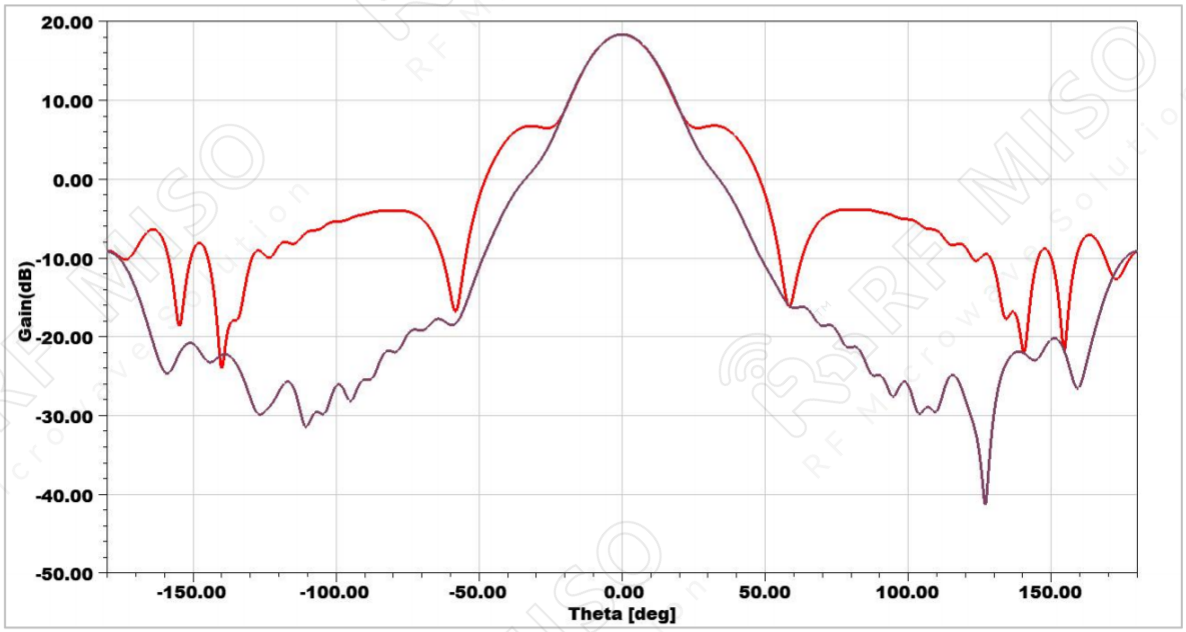
3dB beam-width_E plane: 25.11, H plane: 23.72 @75GHz



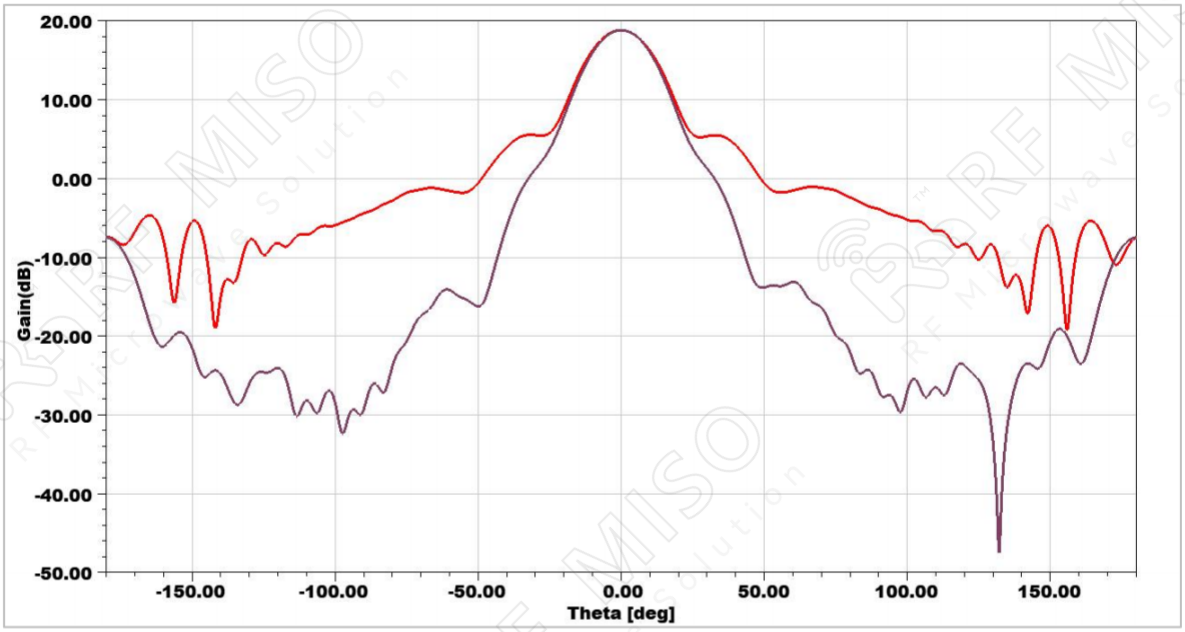
3dB beam-width_E plane: 23.35, H plane: 22.63 @80GHz



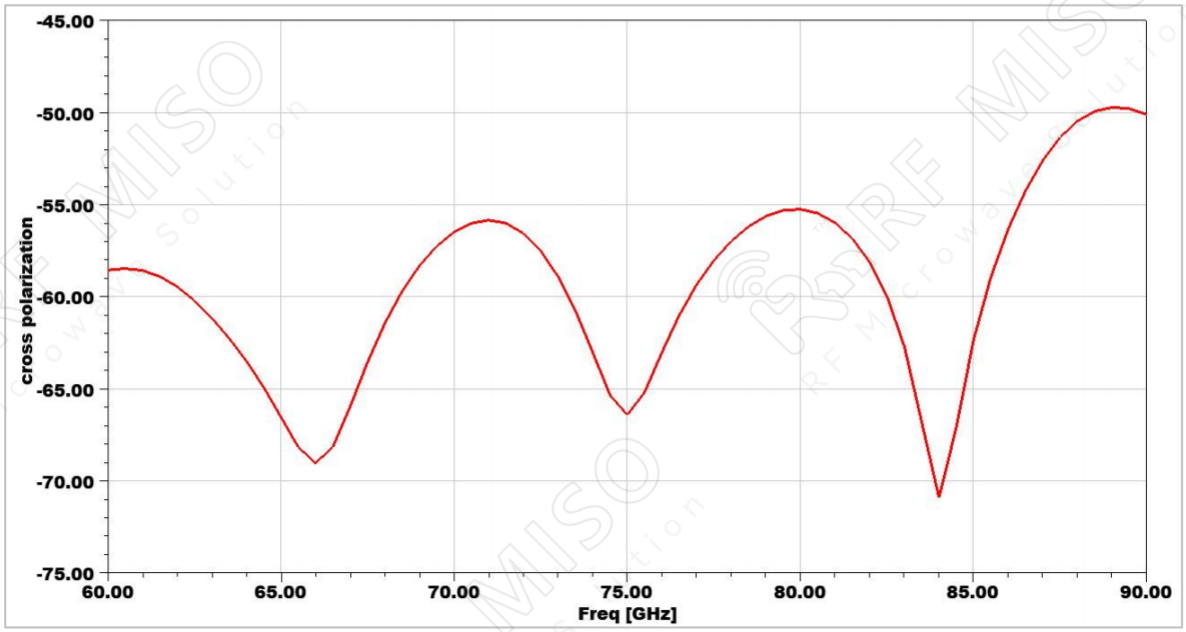
3dB beam-width_E plane: 21.89, H plane: 21.97 @85GHz

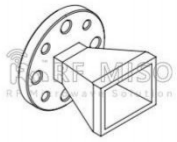


3dB beam-width_E plane: 21.7, H plane: 20.56 @90GHz



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.

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