

Standard Gain Horn Antenna  
10dBi Typ, Gain, 12-18 GHz Frequency Range

## Standard Gain Horn Antenna Data Sheet

**RM-SGHA1218-10**

### Features

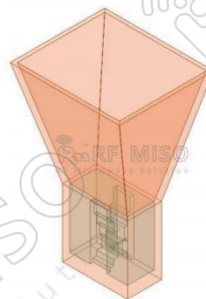
- Ideal for Antenna Measurements
- Low VSWR
- High Gain
- Broadband Operation
- Linear Polarization
- Small Size

### Descriptions

Microtech's **Model RM-SGHA1218-10** is a linear polarized standard gain horn antenna that operates from 12 to 18 GHz. The antenna offers a typical gain of 10 dBi and low VSWR 1.2:1 with SMA-F connector. It can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields

### Specifications

RM-SGHA1218-10		
Parameters	Typical	Units
Frequency Range	12-18	GHz
Gain	10 Typ.	dBi
VSWR	1.2 Typ.	
Polarization	Linear	
Connector	SMA-F	
Material	Al	
Surface Treatment	Paint	
Size	48*30*26(L*W*H)	mm
Weight	50	g



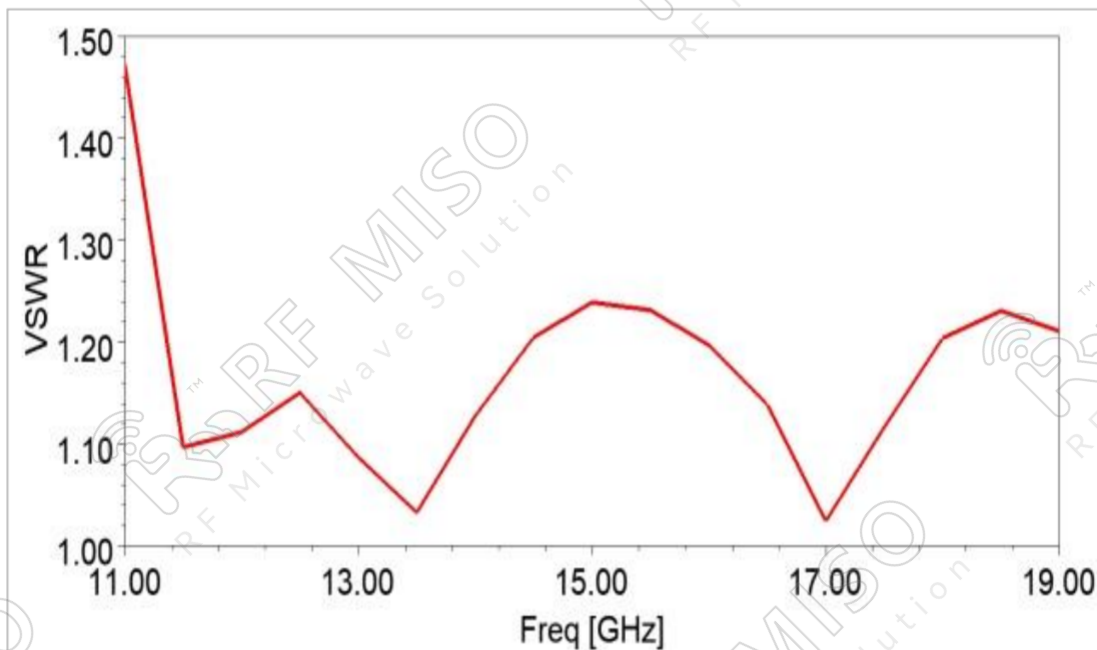
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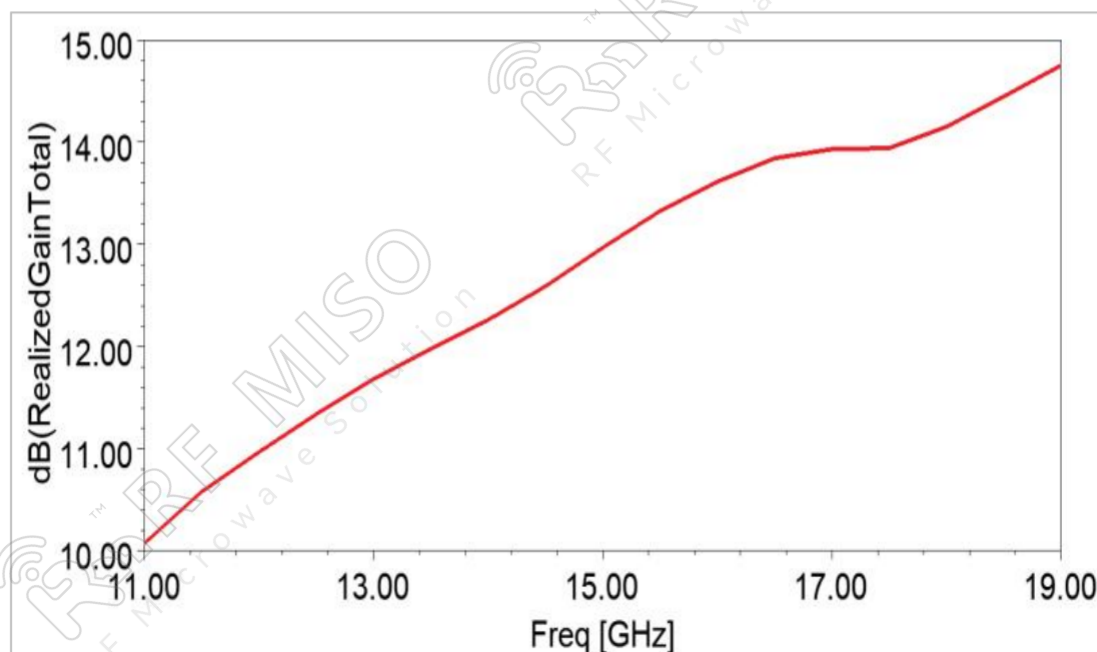
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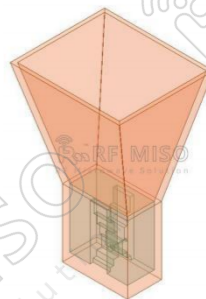
**Simulated Results**

VSWR



Gain



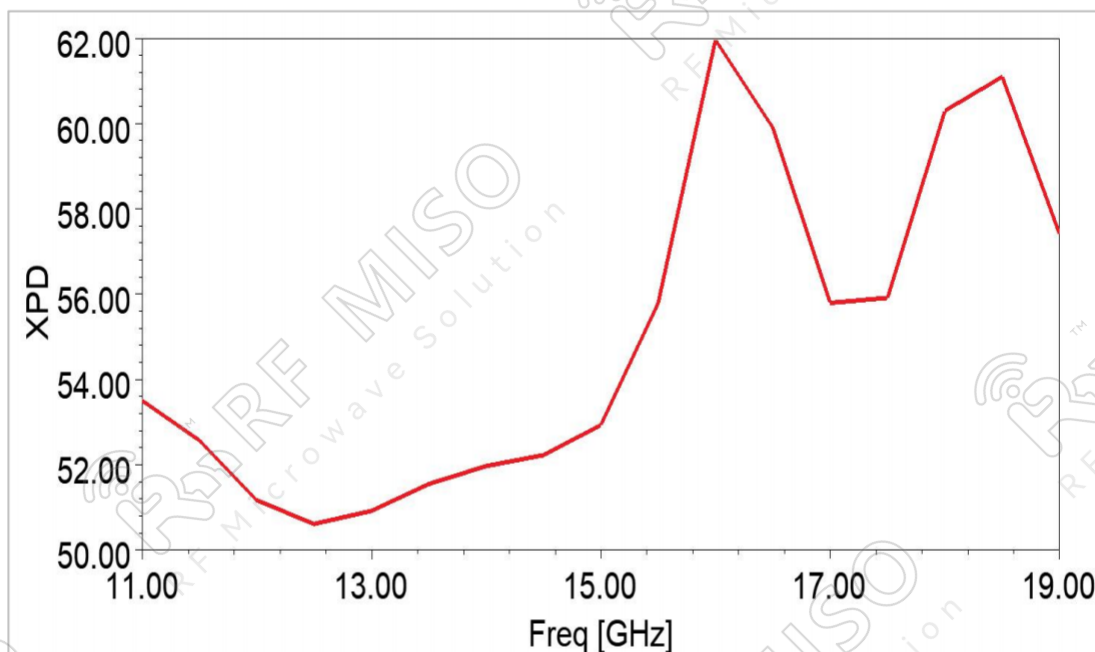


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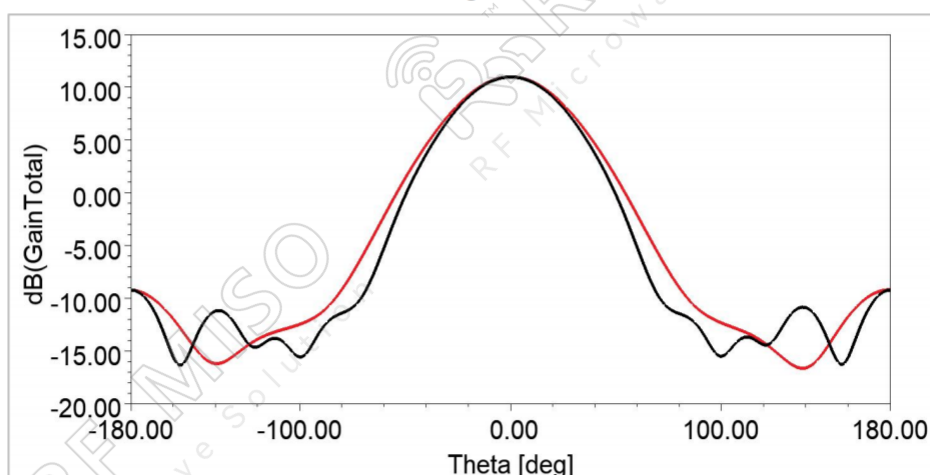
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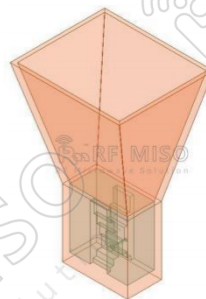
Cross Polarization



Gain Pattern  
12GHz



3dB Beam Width(deg): H Plane: 52.5deg E Plane: 50.4deg

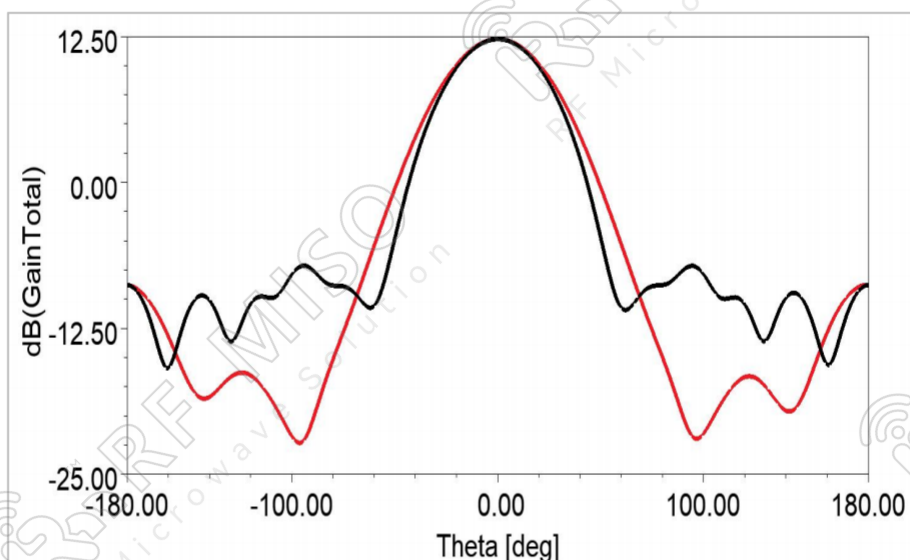


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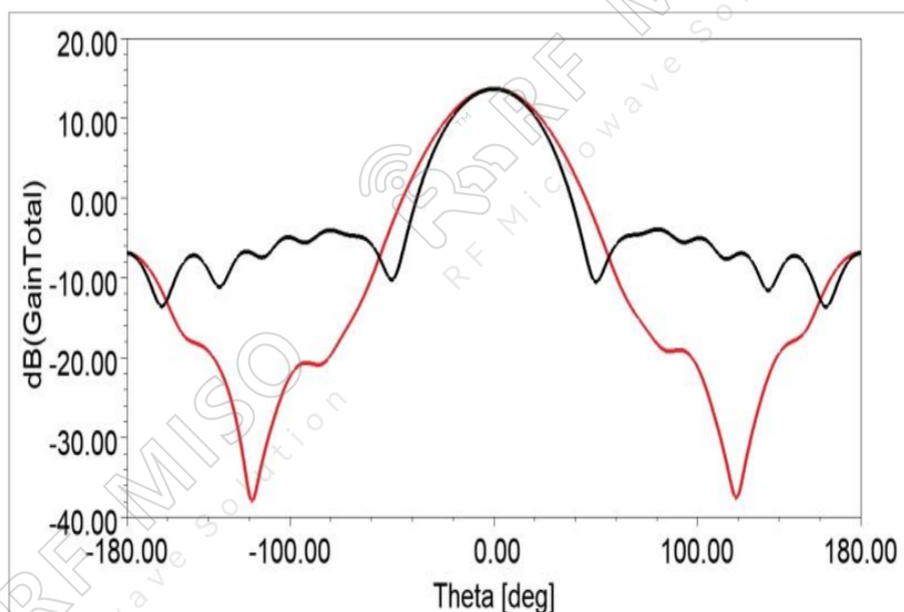
**RM-SGHA1218-10**

14GHz

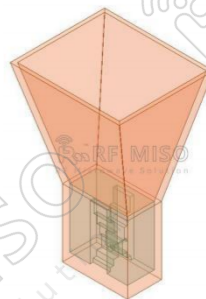


3dB Beam Width(deg): H Plane: 47.4deg E Plane: 44.4deg

16GHz



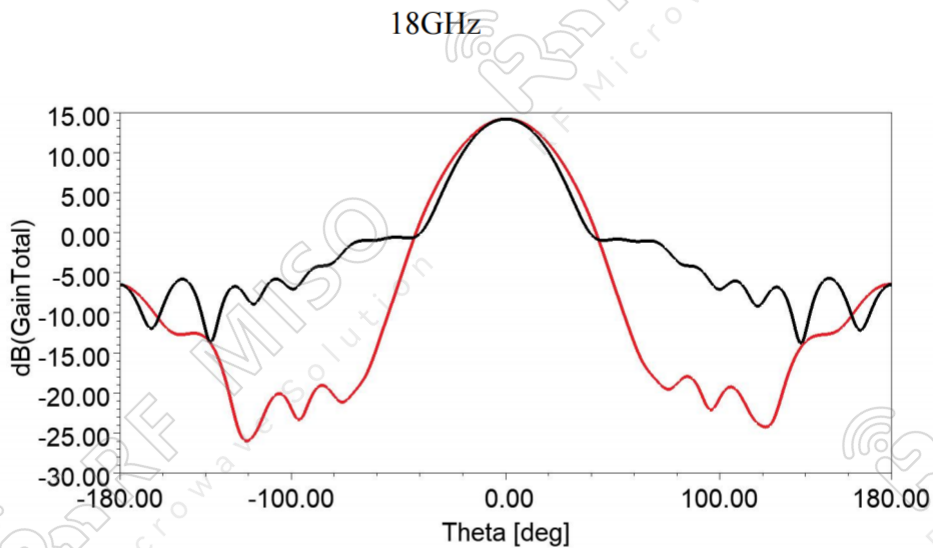
3dB Beam Width(deg): H Plane: 41.5deg E Plane: 39.7deg



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3dB Beam Width(deg): H Plane: 38.76deg E Plane: 34deg