



Dual Polarized Horn Antenna Data Sheet

RM-DPHA15-18

Features

- Full V Band Performance
- Dual Polarization
- High Port Isolation
- Precisely Machined and Gold Plated

Description

The **RM-DPHA15-18** is a full-band, dual-polarized, WR-15 horn antenna assembly that operates in the frequency range of 50 to 75 GHz. The antenna features an integrated orthogonal mode converter that provides high port isolation. The RM-DPHA5075-15 supports vertical and horizontal waveguide orientations and has a typical 35 dB cross-polarization isolation, a nominal gain of 18 dBi at the center frequency, a typical 3db beamwidth of 28 degrees in the E-plane, a typical 3db beamwidth of 33 degrees in the H-plane. The input to the antenna is a WR-15 waveguide with a UG-387/U-M threaded flange.

Specifications

RM-DPHA15-18		
Item	Specification	Units
Frequency Range	50-75	GHz
Gain	18 Typ.	dBi
VSWR	1.4:1 Typ.	
Polarization	Dual	
3dB Beam Width E Plane	28 Typ.	Degrees
3dB Beam Width H Plane	33 Typ.	Degrees
Port Isolation	45 Typ.	dB
Waveguide Size	WR-15	
Flange Designation	UG-385/U	
Size	56*23*23	mm
Weight	0.118	kg
Body Material and Finish	Cu, Gold	

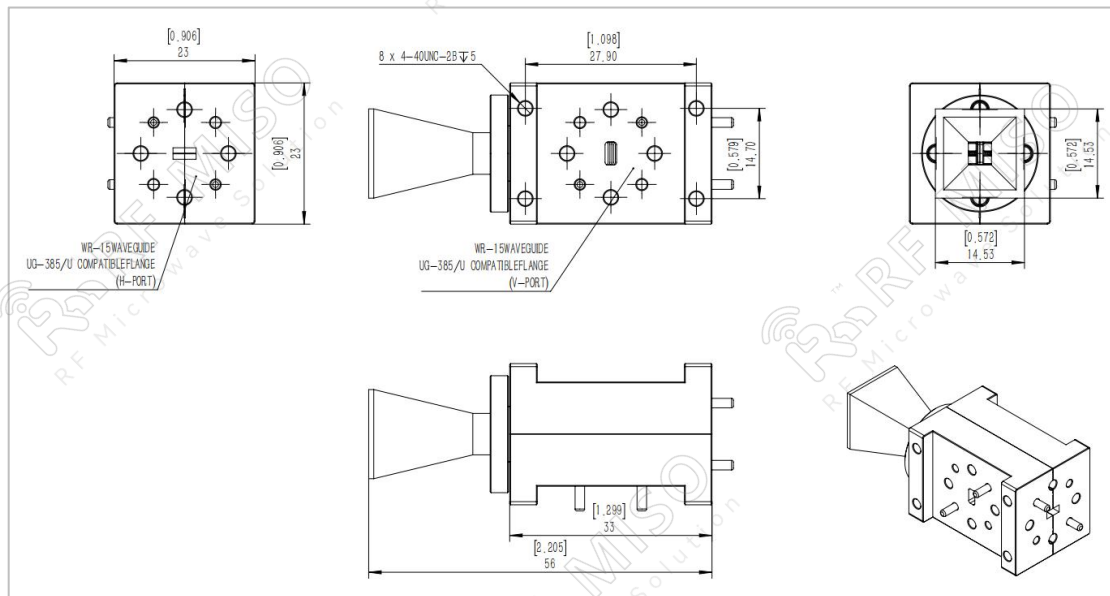
Dual Polarized Horn Antenna
18dBi Typ.Gain, 50GHz-75GHz Frequency Range



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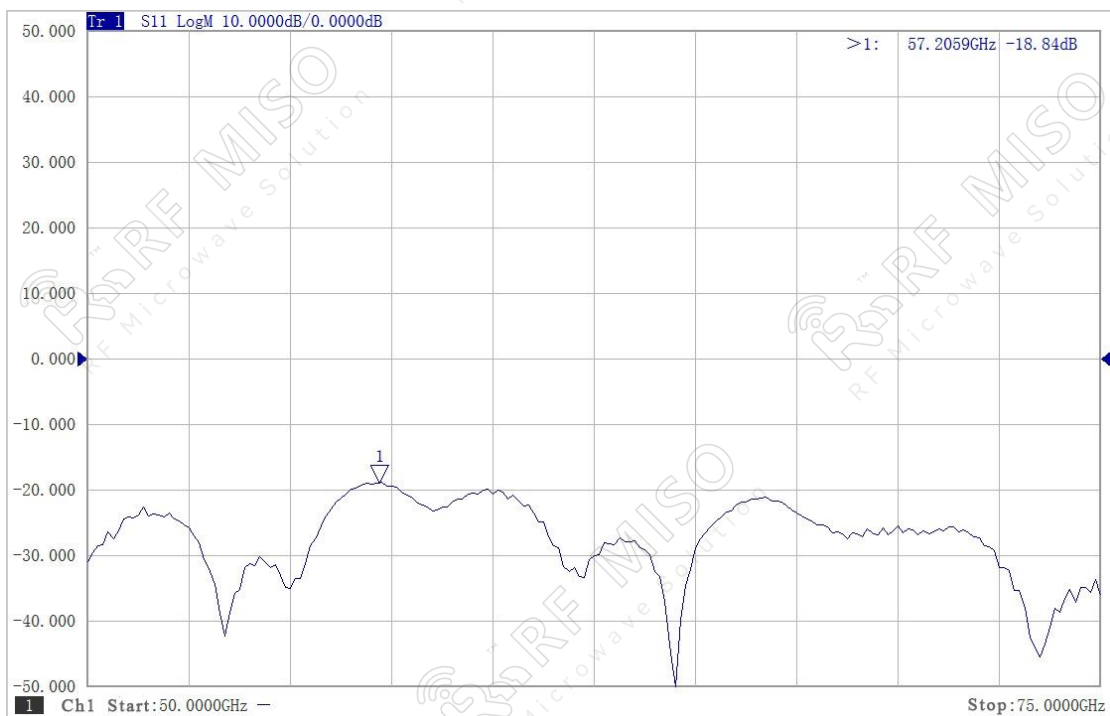
RM-DPHA15-18

Outline Drawing



Testing Result

VSWR



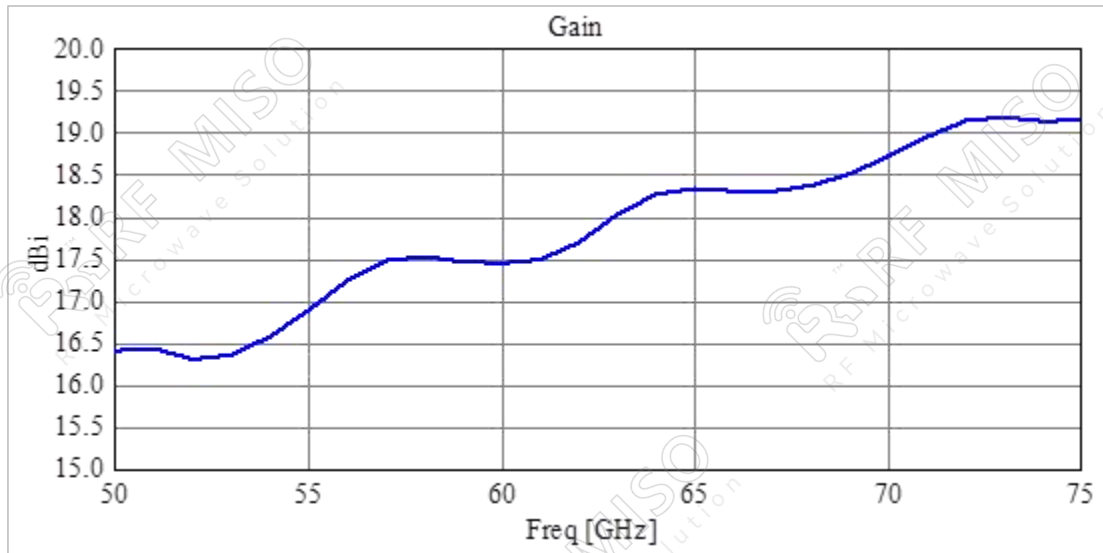
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Simulated Data

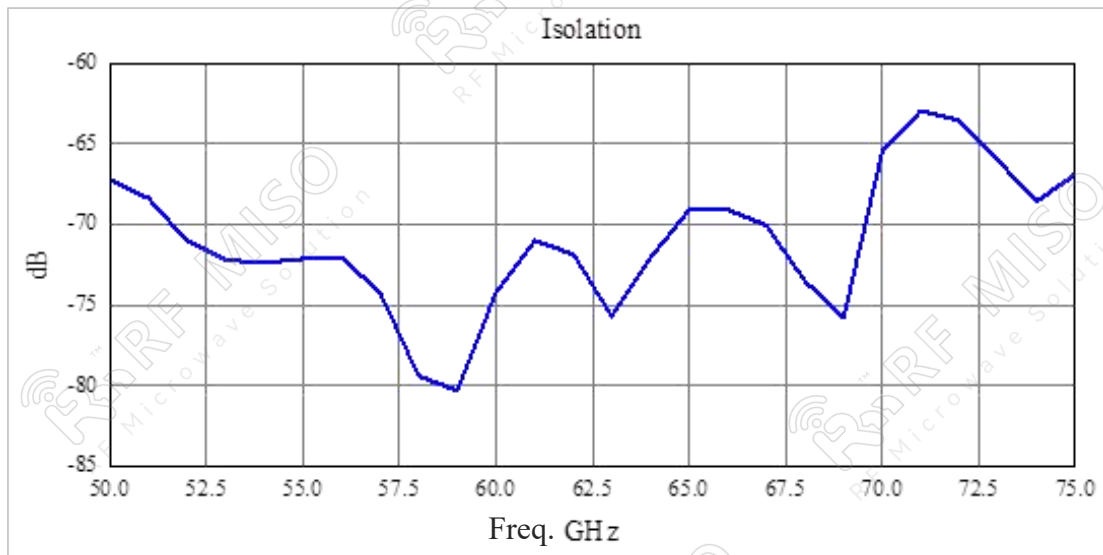
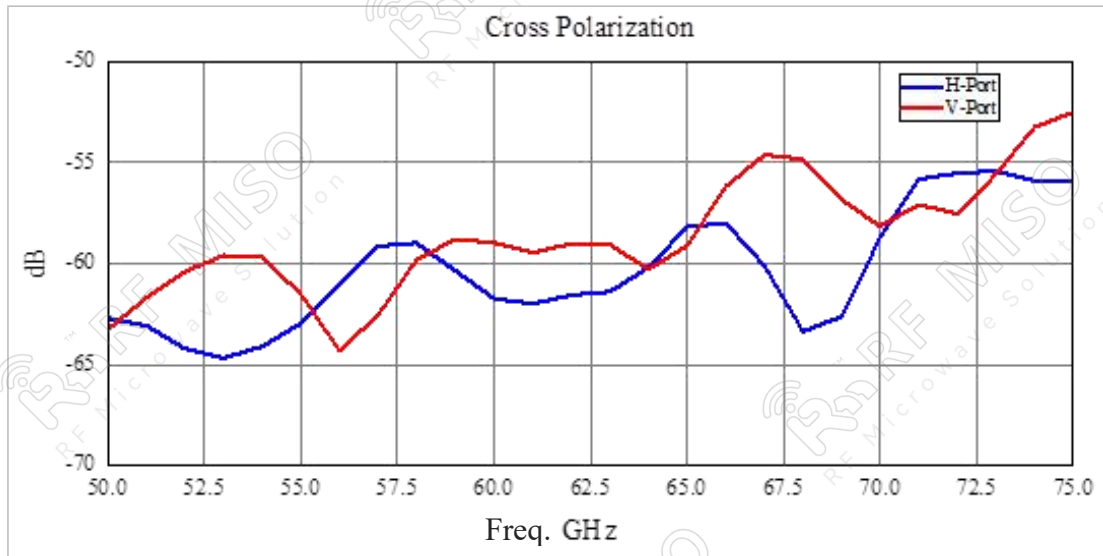


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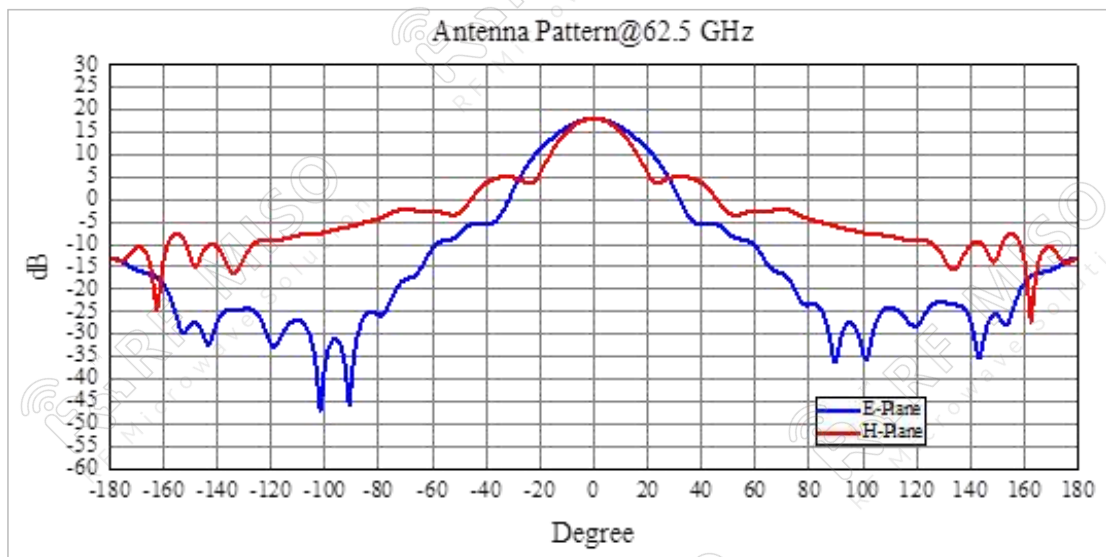
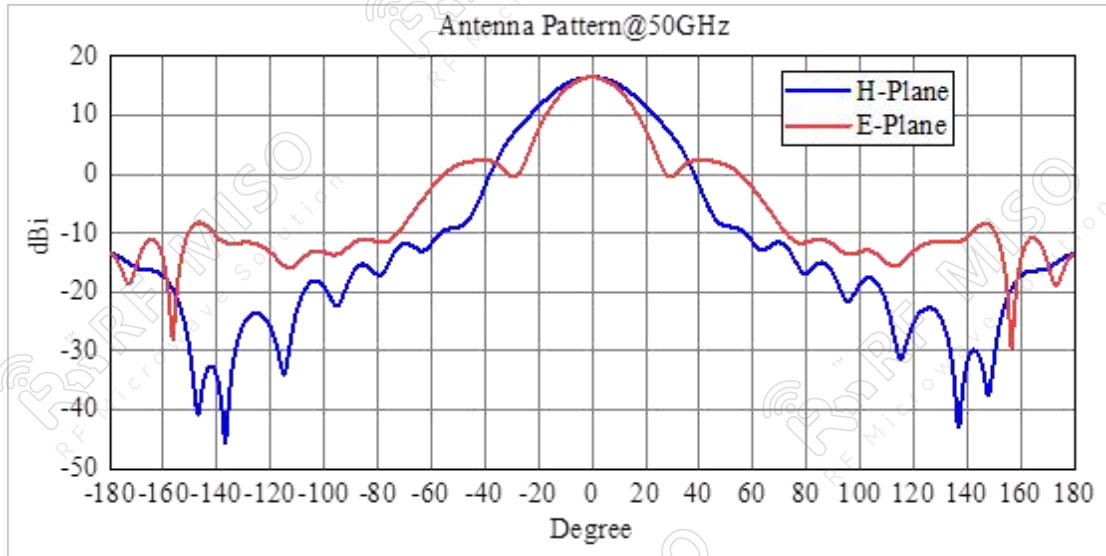


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