



Dual Polarized Horn Antenna Data Sheet

RM-DPHA22-17

Features

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

Description

The **RM-DPHA22-17** is a full-band, dual-polarized, WR-22 horn antenna assembly that operates in the frequency range of 33 to 50GHz. The antenna features an integrated orthogonal mode converter that provides high port isolation. The RM-DPHA3350-17 supports vertical and horizontal waveguide orientations and has a typical 35 dB cross-polarization isolation, a nominal gain of 17 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-22 waveguide with a UG-387/U-M threaded flange.

Specifications

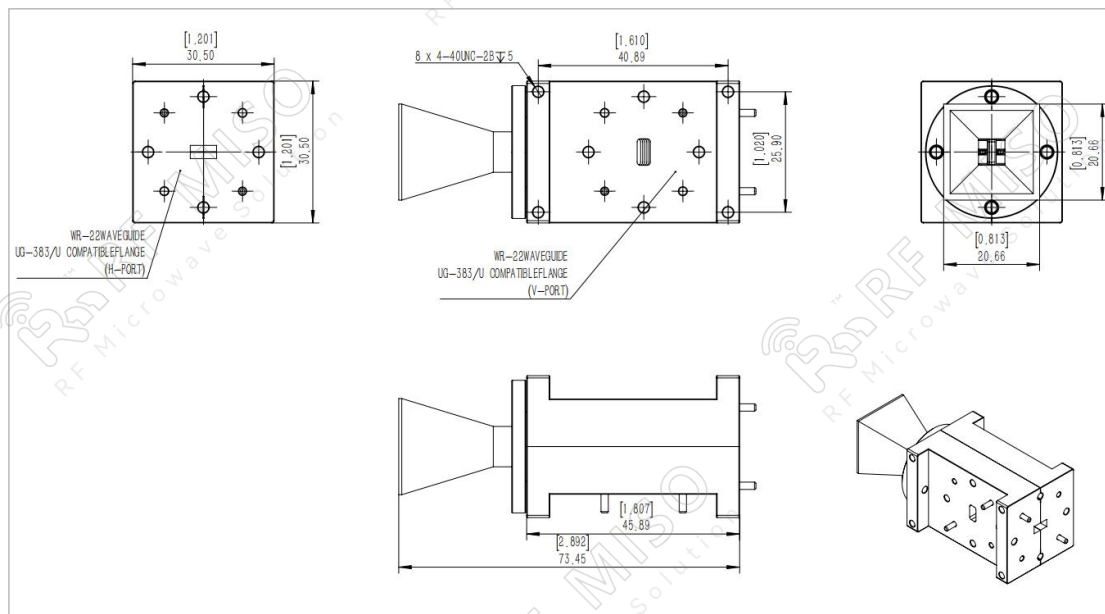
RM-DPHA22-17		
Item	Specification	Units
Frequency Range	33-50	GHz
Gain	17 Typ.	dBi
VSWR	1.3:1 Typ.	
Polarization	Dual	
3dB Beam Width E Plane	28 Typ.	Degrees
3dB Beam Width H Plane	33 Typ.	Degrees
Port Isolation	45 Typ.	dB
Waveguide Size	WR-22	
Flange Designation	UG-383U	
Size	73.45*30.5*30.5	mm
Weight	0.273	Kg
Body Material and Finish	Cu, Gold	



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Outline Drawing



Testing Result

VSWR

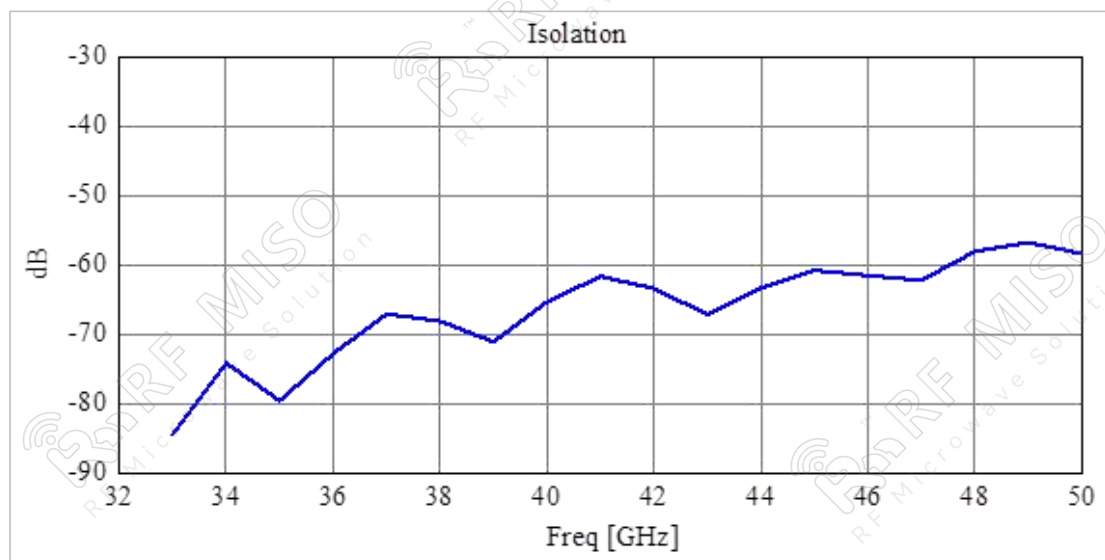
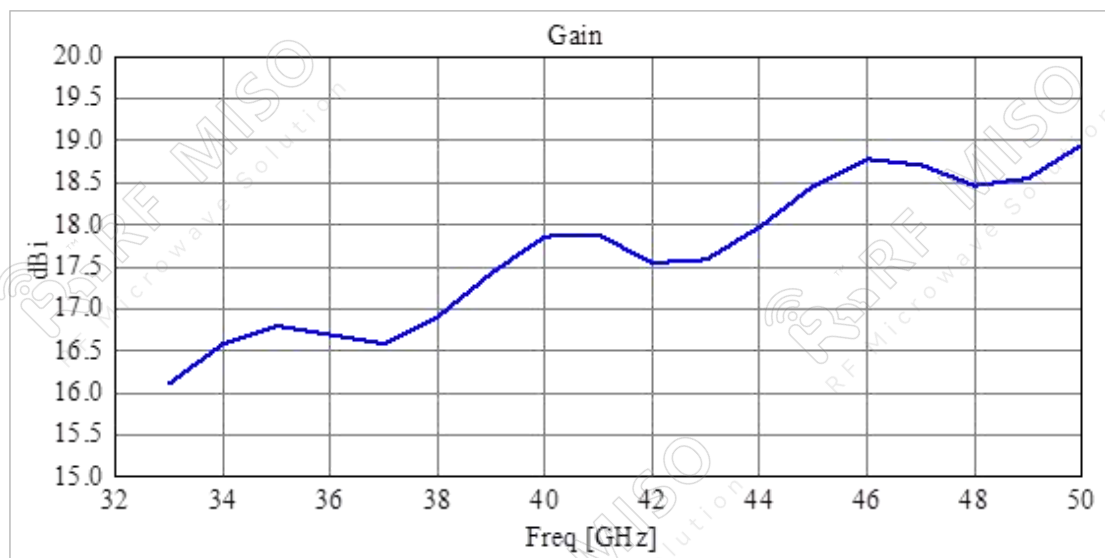




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Simulated Data

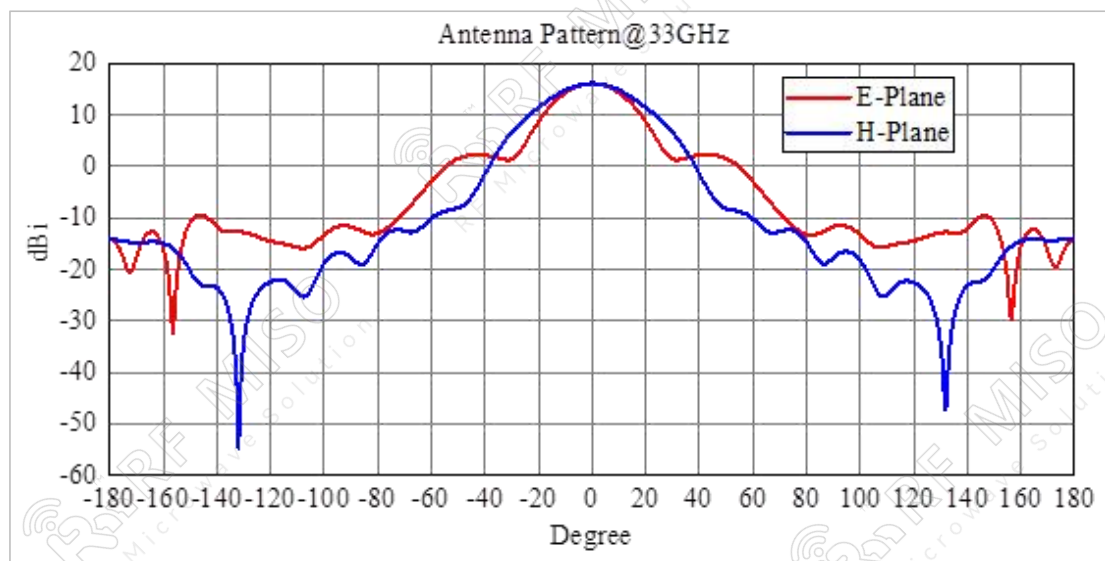
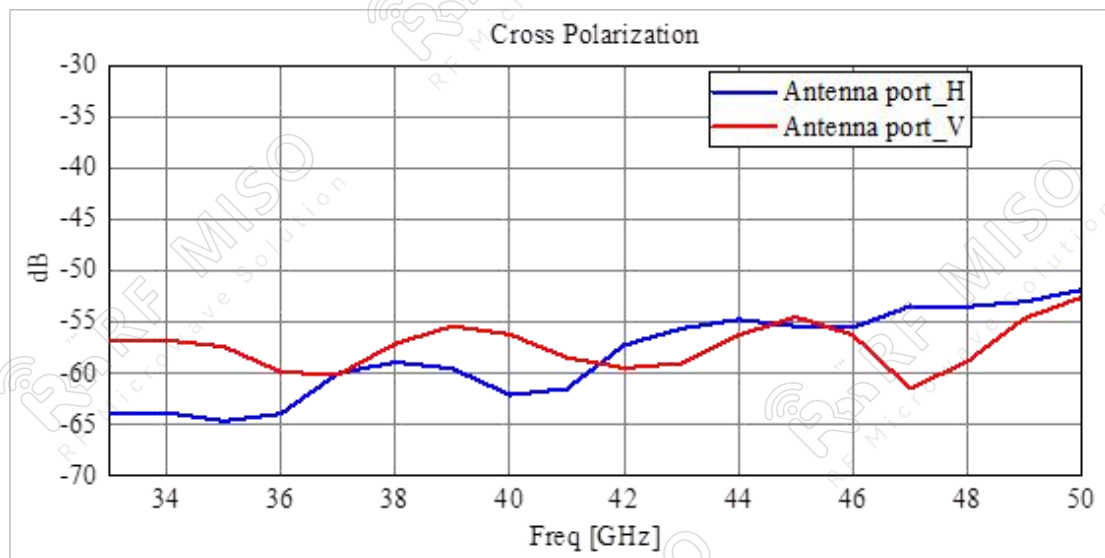


Dual Polarized Horn Antenna
17dBi Typ.Gain, 33GHz-50GHz Frequency Range



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