



Dual Polarized Horn Antenna
15 dBi Gain, 33GHz-50GHz Frequency Range

Dual Polarized Horn Antenna Data

MT-DPHA3350-15

Features

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

Description

The **MT-DPHA3350-15** from Microtech is a full-band, dual-polarized, WR-22 horn antenna assembly that operates in the frequency range of 33 GHz to 50GHz. The antenna features an integrated orthogonal mode converter that provides high port isolation. The MT-DPHA3350-15 supports vertical and horizontal waveguide orientations and has a typical 35 dB cross-polarization suppression, a nominal gain of 15 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

MT-DPHA3350-15		
Item	Specification	Units
Frequency Range	33-50	GHz
Gain	15	dBi
VSWR	1.3:1	
Polarization	Dual	
Horizontal 3dB Beam Width	33	Degrees
Vertical 3dB Beam Width	28	Degrees
Port Isolation	45	dB
Waveguide Size	WR-22	
Flange Designation	UG-383U	g
Size	40.89*73.45	mm
Weight	273	g
Body Material and Finish	Cu, Gold	

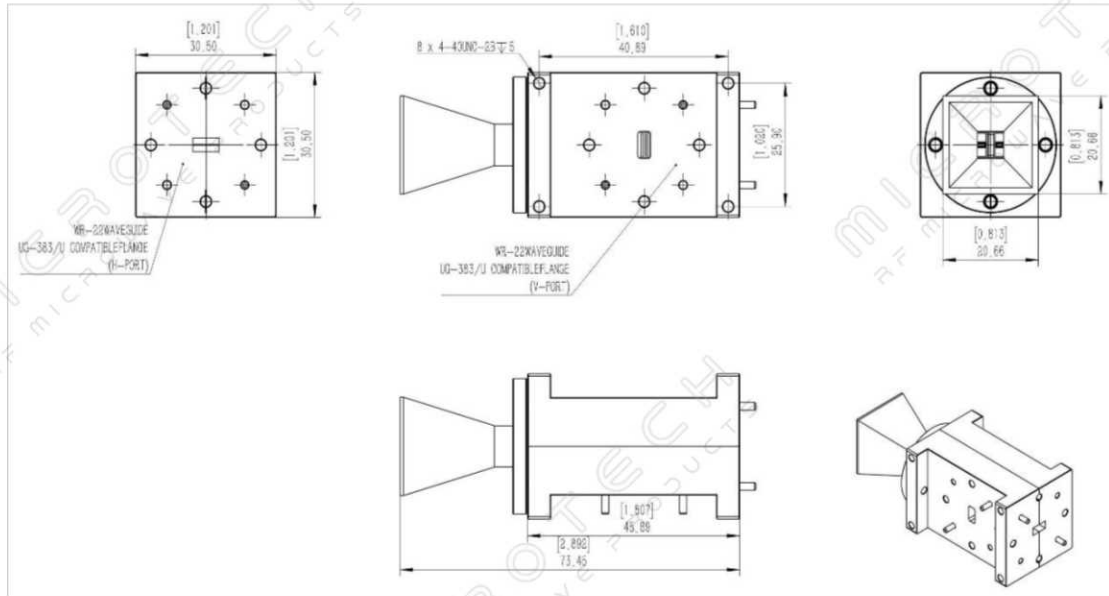


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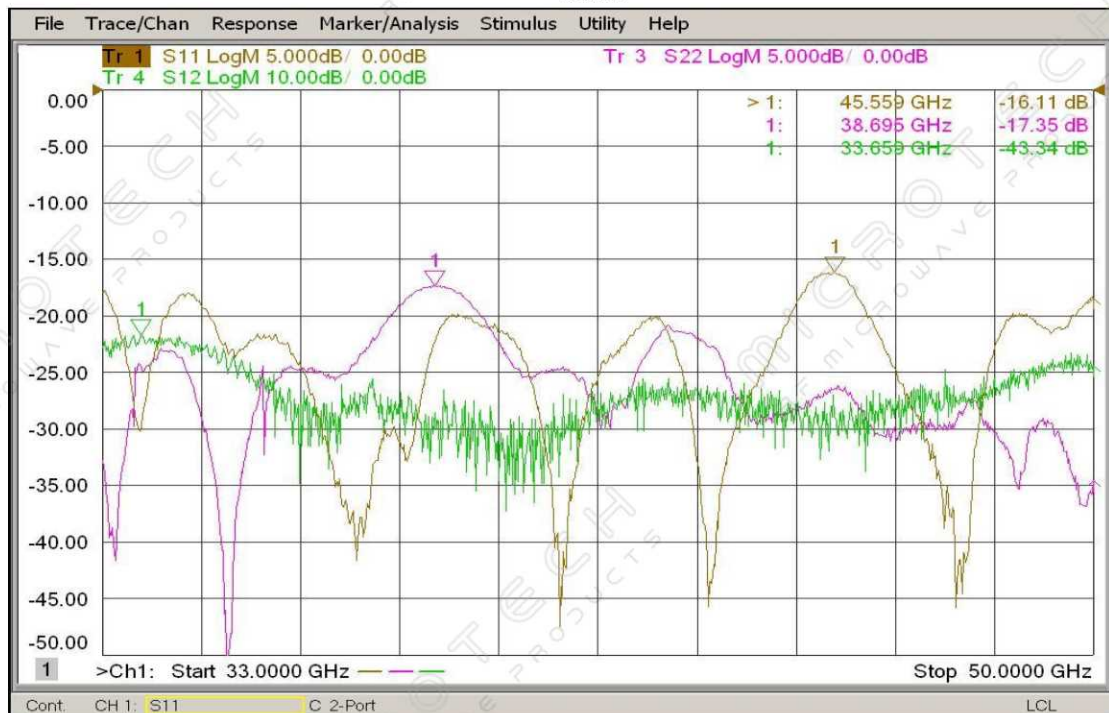
MT-DPHA3350-15

Outline Drawing



Testing Result

VSWR



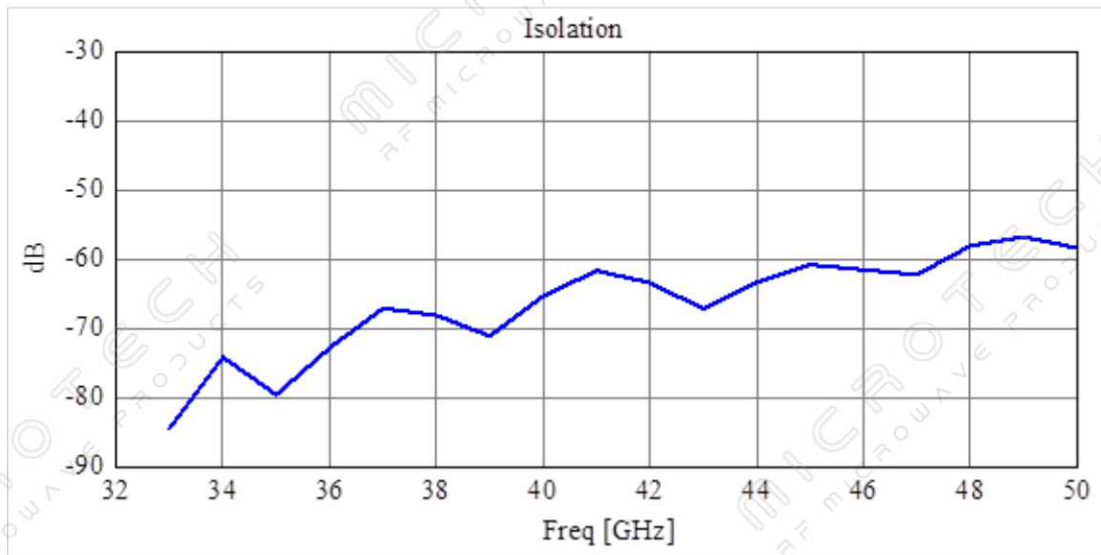
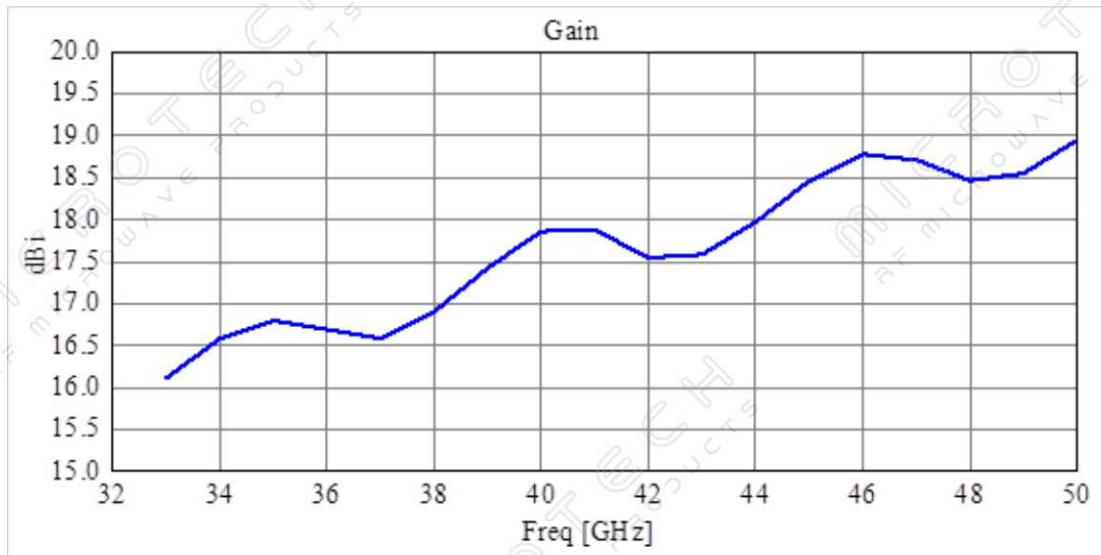


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Simulated Data

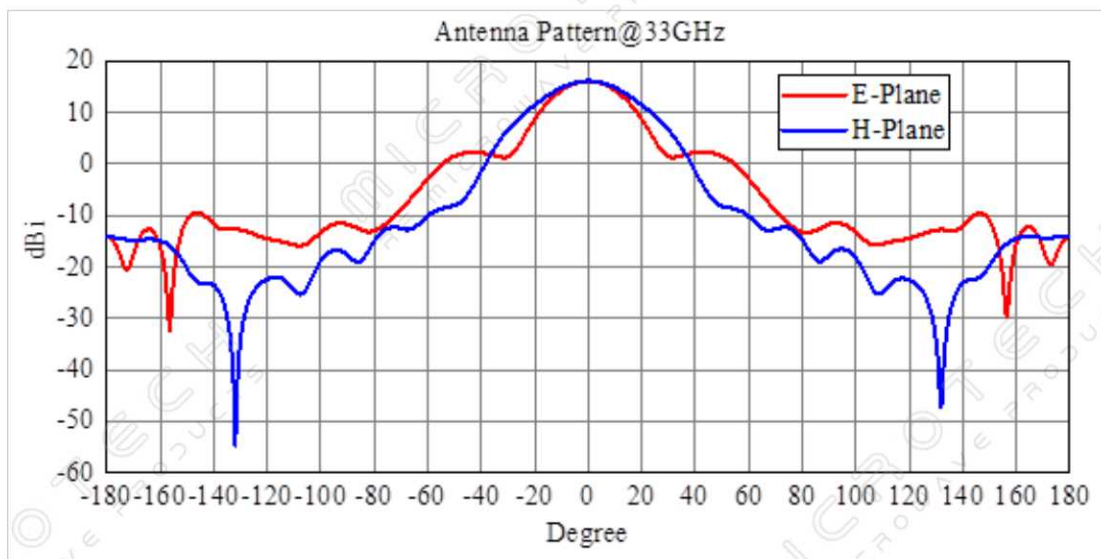
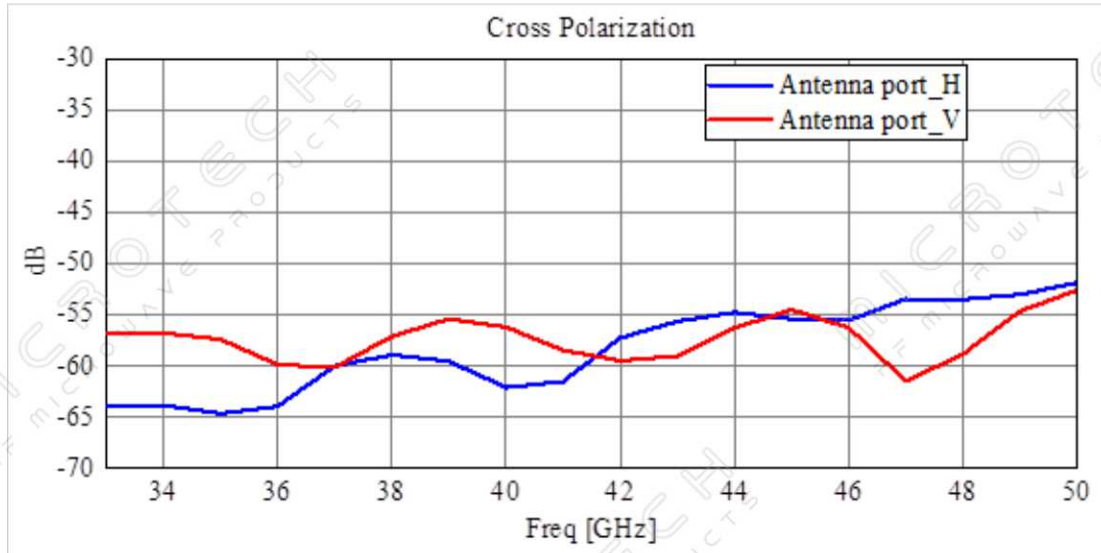




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