

Description

281 Series Orthomode Transducers

Notes

Data Sheet Variables: XX in Product Name = Center Frequency (Defined by End-User); ".XXX" in Product Name correlates with Internal Diameter defined in Physical Specifications below.

S/N: NA

Electrical Specifications

	Minimal	Typical	Maximum
Frequency	140 GHz		220 GHz
Bandwidth		7 GHz	
Insertion Loss (H to A Port)		4.5 dB	
Insertion Loss (V to A Port)		4.5 dB	
Isolation (H to V Port)		20 dB	
Cross Polarization (H to A Port)		20 dB	
Cross Polarization (V to A Port)		20 dB	
Return Loss (H Port)		-12 dB	
Return Loss (V Port)		-12 dB	
Return Loss (A Port, Vertical)		-12 dB	
Return Loss (A Port, Horizontal)		-12 dB	

Physical Specifications

Antenna Port Option 1	.067" ID Circular Waveguide (125-140 GHz)
Antenna Port Option 2	.059" ID Circular Waveguide (140-220 GHz)
Horizontal Port	WR-05 Waveguide with UG-387/U-M Flange
Vertical Port	WR-05 Waveguide with UG-387/U-M Flanges
Material	Brass or Aluminum
Finish	Gold Plated

Tested by: Kim Madden

Date: 2021-03-31

