

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	33 GHz		50 GHz
Bandwidth		4 GHz	
Insertion Loss (H to A Port)		0.5 dB	
Insertion Loss (V to A Port)		0.5 dB	
Isolation (H to V Port)		30 dB	
Cross Polarization (H to A Port)		30 dB	
Cross Polarization (V to A Port)		30 dB	
Return Loss (H Port)		-15 dB	
Return Loss (V Port)		-15 dB	
Return Loss (A Port, Vertical)		-15 dB	
Return Loss (A Port, Horizontal)		-15 dB	

Physical Specifications

Antenna Port Option 1	.250" ID Circular Waveguide (33-38.5 GHz)
Antenna Port Option 2	.219" ID Circular Waveguide (38.5-43 GHz)
Antenna Port Option 3	.188" ID Circular Waveguide (43-50 GHz)
Horizontal Port	WR-22 Waveguide with UG-383/U Flange
Vertical Port	WR-22 Waveguide with UG-383/U Flange
Material / Finish	Brass or Aluminum/ Gold Plated

Tested by: Kim Madden

Date: 2021-04-05

