

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	8.2 GHz		12.4 GHz
Bandwidth (See Physical Specifications Below)		1.5 GHz	
Insertion Loss (H to A Port)		0.3 dB	
Insertion Loss (V to A Port)		0.3 dB	
Isolation (H to V Port)		35 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	1.094" ID Circular Waveguide (8-9.97 GHz)
Antenna Port Option 2	.938" ID Circular Waveguide (8.5-11.6 GHz)
Antenna Port Option 3	.797" ID Circular Waveguide (9.7-12.4 GHz)
Horizontal and Vertical Ports	WR-90 Waveguides with UG-39/U Flanges
Material	Aluminum
Finish	Chem Film

Tested by: Kim Madden

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