

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	90 GHz		140 GHz
Bandwidth (See Physical Specifications Below)		Def. by ID	
Insertion Loss (H to A Port)		2.5 dB	
Insertion Loss (V to A Port)		2.5 dB	
Isolation (H to V Port)		25 dB	
Cross Polarization (H to A Port)		25 dB	
Cross Polarization (V to A Port)		25 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	.094" ID Circular Waveguide (87-100 GHz)
Antenna Port Option 2	.082" ID Circular Waveguide (100-112 GHz)
Antenna Port Option 3	.075" ID Circular Waveguide (112-125 GHz)
Antenna Port Option 4	.067" ID Circular Waveguide (125-140 GHz)
Horizontal and Vertical Ports	WR-08 Waveguide with UG-387/U-M Flanges
Material / Finish	Brass or Aluminum/ Gold Plated

Tested by: Kim Madden

Date: 2021-03-31

