

## 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	75 GHz		110 GHz
Bandwidth		6 GHz	
Insertion Loss (H to A Port)		2.0 dB	
Insertion Loss (V to A Port)		2.0 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	.125" ID Circular Waveguide (75-77 GHz)
Antenna Port Option 2	.110" ID Circular Waveguide (77-87 GHz)
Antenna Port Option 3	.094" ID Circular Waveguide (87-100 GHz)
Antenna Port Option 4	.082" ID Circular Waveguide (100-110 GHz)
Horizontal and Vertical Ports	WR-10 Waveguide with UG-387/U-M Flanges
Material / Finish	Brass or Aluminum/ Gold Plated

Tested by: Kim Madden

Date: 2021-03-31

