

## 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	35.29	38.5 GHz
Bandwidth		5.5 Ghz	
Insertion Loss (H to A Port)		0.5 dB	
Insertion Loss (V to A Port)		0.5 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)		-15 dB	

## Physical Specifications

Antenna Port Option 1	.328" ID Circular Waveguide (26.5-28.5 GHz)
Antenna Port Option 2	.281" ID Circular Waveguide (28.5-33 GHz)
Antenna Port Option 3	.250" ID Circular Waveguide (33-38.5 GHz)
Antenna Port Option 4	.219" ID Circular Waveguide (38.5-40 GHz)
Horizontal and Vertical Ports	WR-28 Waveguide with UG-599/U Flanges
Material / Finish	Brass Gold Plated

Tested by: MS

Date: 2021-03-31

