

## 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	18 GHz		26.5 GHz
Bandwidth		3 GHz	
Insertion Loss (H to A Port)		0.4 dB	
Insertion Loss (V to A Port)		0.4 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	.470" ID Circular Waveguide (17.5-20.5 GHz)
Antenna Port Option 2	.396" ID Circular Waveguide (20.5-24.5 GHz)
Antenna Port Option 3	.328" ID Circular Waveguide (24.5-26.5 GHz)
Horizontal Port	WR-42 Waveguide with UG-595/U Flanges
Vertical Port	WR-42 Waveguide with UG-595/U Flanges
Material / Finish	Aluminum / Chem Filmed or Gold Plated

Tested by: Kim Madden

Date: 2021-03-31

