

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	40 GHz		60 GHz
Bandwidth		5 GHz	
Insertion Loss (H to A Port)		0.7 dB	
Insertion Loss (V to A Port)		0.7 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	.219" ID Circular Waveguide (40-43 GHz)
Antenna Port Option 2	.188" ID Circular Waveguide (43-50 GHz)
Antenna Port Option 3	.165" ID Circular Waveguide (50-58 GHz)
Antenna Port Option 4	.141" ID Circular Waveguide (58-60 GHz)
Horizontal and Vertical Ports	WR-19 Waveguide with UG-383/U-M Flanges
Material / Finish	Brass or Aluminum/ Gold Plated

Tested by: Kim Madden

Date: 2021-04-05

