

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 | 50 GHz | | 75 GHz |
| Bandwidth | | 5 GHz | |
| Insertion Loss (H to A Port) | | 1.0 dB | |
| Insertion Loss (V to A Port) | | 1.0 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 | |
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Physical Specifications

| | |
|-----------------------|---|
| Antenna Port Option 1 | .165" ID Circular Waveguide (50-58 GHz) |
| Antenna Port Option 2 | .141" ID Circular Waveguide (58-68 GHz) |
| Antenna Port Option 3 | .125" ID Circular Waveguide (68-75 GHz) |
| Horizontal Port | WR-15 Waveguide with UG-385/U Flange |
| Vertical Port | WR-15 Waveguide with UG-385/U Flange |
| Material / Finish | Brass or Aluminum/ Gold Plated |
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Tested by: Kim Madden

Date: 2021-03-31

