

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 | 110 GHz | | 170 GHz |
| Bandwidth | | 7 GHz | |
| Insertion Loss (H to A Port) | | 3.5 dB | |
| Insertion Loss (V to A Port) | | 3.5 dB | |
| Isolation (H to V Port) | | 25 dB | |
| Cross Polarization (H to A Port) | | 25 dB | |
| Cross Polarization (V to A Port) | | 25 dB | |
| Return Loss (H Port) | | -12 dB | |
| Return Loss (V Port) | | -12 dB | |
| Return Loss (A Port, Vertical) | | -12 dB | |
| Return Loss (A Port, Horizontal) | | -12 dB | |
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Physical Specifications

| | |
|-------------------------------|---|
| Antenna Port Option 1 | .082" ID Circular Waveguide (110-112 GHz) |
| Antenna Port Option 2 | .075" ID Circular Waveguide (112-125 GHz) |
| Antenna Port Option 3 | .067" ID Circular Waveguide (125-140 GHz) |
| Antenna Port Option 4 | .059" ID Circular Waveguide (140-160 GHz) |
| Horizontal and Vertical Ports | WR-06 Waveguide with UG-387/U-M Flanges |
| Material / Finish | Brass or Aluminum/ Gold Plated |
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Tested by: Kim Madden

Date: 2021-03-31

