10 dB, Air Directional Coupler, 555–6000 MHz

Product Classification

Regional Availability
- Asia
- Australia/New Zealand
- EMEA
- Latin America
- North America

Product Type
Directional coupler

General Specifications

Device Type
Coupler

Application
Indoor/Outdoor

Color
White

Inner Contact Plating
Silver

Interface
4.3-10 Female

Outer Contact Plating
Trimetal

Dimensions

Height
22 mm | 0.866 in

Width
72 mm | 2.835 in

Length
159 mm | 6.26 in

Electrical Specifications

3rd Order IMD
-165 dBc

3rd Order IMD Test Method
Two +43 dBm carriers

Insertion Loss at Frequency Band
0.8 dB @ 555–6000 MHz

Average Power, maximum
300 W

Coupling
10 dB

Coupling Tolerance
±1.2 dB

Impedance
50 ohm

Isolation at Frequency Band
- 26 dB @ 3800–4900 MHz
- 26 dB @ 4900–6000 MHz
- 28 dB @ 2700–3800 MHz
- 30 dB @ 555–2700 MHz

Operating Frequency Band
555 – 6000 MHz
### Peak Power, maximum
1 kW

### Reflected Power, maximum
100 W

### VSWR at Frequency Band
- 1.25:1 @ 2700–3800 MHz
- 1.2:1 @ 555–2700 MHz
- 1.3:1 @ 3800–6000 MHz

### Mechanical Specifications

| Coupling Nut Proof Torque | 7 N-m | 61.955 in lb |

### Environmental Specifications

#### Operating Temperature
-35 °C to +85 °C (-31 °F to +185 °F)

#### Relative Humidity
Up to 100%

#### Corrosion Test Method
IEC 60068-2-11, 30 days

#### Ingress Protection Test Method
IEC 60529:2001, IP67

### Packaging and Weights

| Height, packed | 45 mm | 1.772 in |
| Width, packed  | 98 mm | 3.858 in |
| Length, packed | 180 mm | 7.087 in |
| Weight, gross  | 0.44 kg | 0.97 lb |
| Weight, net    | 0.38 kg | 0.838 lb |

### Regulatory Compliance/Certifications

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<th>Agency</th>
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<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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