

C-8-UW-43-A16



8 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 | 23 mm 0.906 in |
| Width | 70 mm 2.756 in |
| Length | 156 mm 6.142 in |

Electrical Specifications

| | |
|----------------------------------|--|
| 3rd Order IMD | -165 dBc |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| Insertion Loss at Frequency Band | 1.2 dB @ 555–6000 MHz |
| Average Power, maximum | 300 W |
| Coupling | 8 dB |
| Coupling Tolerance | ±1.2dB |
| Impedance | 50 ohm |
| Isolation at Frequency Band | 22 dB @ 4900–6000 MHz 24 dB @ 2700–3800 MHz 24 dB @ 3800–4900 MHz 28 dB @ 555–2700 MHz |
| Operating Frequency Band | 555 – 6000 MHz |

C-8-UW-43-A16

| | |
|--------------------------|---|
| Peak Power, maximum | 1 kW |
| Reflected Power, maximum | 70 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 | 0.42 kg 0.926 lb |
| Weight, net | 0.36 kg 0.794 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |