C-8-UW-43-AI6



Product Classification

8 dB, Air Directional Coupler, 555–6000 MHz

| 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 |

Page 1 of 2

©2023 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: April 27, 2023



C-8-UW-43-AI6

| 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 |

| Coupling Nut Proof Torque | / N-m | 61.955 п |
|---------------------------|-------|----------|
| | | |

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

Page 2 of 2

©2023 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: April 27, 2023

