C-6-UW-43-AI6



Product Classification

6 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	1.8 dB @ 555-6000 MHz
Average Power, maximum	300 W
Coupling	6 dB
Coupling Tolerance	±1.1dB
Impedance	50 ohm
Isolation at Frequency Band	18 dB @ 4900-6000 MHz 22 dB @ 3800-4900 MHz 24 dB @ 2700-3800 MHz 26 dB @ 555-2700 MHz
Operating Frequency Band	555 – 6000 MHz

Page 1 of 2

©2024 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: March 26, 2024



C-6-UW-43-AI6

Peak Power, maximum	1 kW
Reflected Power, maximum	40 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 Torque7 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

Page 2 of 2

©2024 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: March 26, 2024

