

C-6-CPUSE-D-AI6

6 dB, Air Directional Coupler, 555–2700 MHz



OBSOLETE

This product was discontinued on: July 31, 2021

Replaced By:

C-6-UW-N-AI6

6 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

Silver

Inner Contact Plating

Silver

Interface

7-16 DIN Female

Outer Contact Plating

Trimetal

Dimensions

Height

36 mm | 1.417 in

Width

74.5 mm | 2.933 in

Length

169 mm | 6.654 in

Electrical Specifications

3rd Order IMD

-160 dBc

3rd Order IMD Test Method

Two +43 dBm carriers

C-6-CPUSE-D-AI6

Insertion Loss at Frequency Band	1.7 dB @ 555–2700 MHz
Return Loss, minimum	20.8 dB
Average Power, maximum	300 W
Coupling	6 dB
Coupling Tolerance	±1.0dB @ 698–2700 MHz ±1.6dB @ 555–698 MHz
Impedance	50 ohm
Isolation at Frequency Band	26 dB @ 555–2700 MHz
Operating Frequency Band	555 – 2700 MHz
Peak Power, maximum	1 kW
Reflected Power, maximum	40 W
VSWR	1.2

Mechanical Specifications

Coupling Nut Proof Torque	25 N-m 221.269 in lb
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Environmental Specifications

Operating Temperature	-35 °C to +85 °C (-31 °F to +185 °F)
Relative Humidity	Up to 100%
Ingress Protection Test Method	IEC 60529:2001, IP65

Packaging and Weights

Height, packed	65 mm 2.559 in
Width, packed	110 mm 4.331 in
Length, packed	170 mm 6.693 in
Volume	1,215.5 cc 74.174 in ³
Weight, gross	0.98 kg 2.161 lb
Weight, net	0.9 kg 1.984 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

C-6-CPUSE-D-A16

