

# C-6-CPUSE-N-AI6

6 dB, Air Directional Coupler, 555–2700 MHz



## OBSOLETE

This product was discontinued on: October 31, 2019

### 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

N Female

### Outer Contact Plating

Trimetal

## Dimensions

### Height

22 mm | 0.866 in

### Width

75 mm | 2.953 in

### Length

155 mm | 6.102 in

## Electrical Specifications

### 3rd Order IMD

-160 dBc

### 3rd Order IMD Test Method

Two +43 dBm carriers

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<b>Insertion Loss at Frequency Band</b>	1.7 dB @ 555–2700 MHz
<b>Return Loss, minimum</b>	20.8 dB
<b>Average Power, maximum</b>	200 W
<b>Coupling</b>	6 dB
<b>Coupling Tolerance</b>	±1.0dB @ 698–2700 MHz   ±1.6dB @ 555–698 MHz
<b>Impedance</b>	50 ohm
<b>Isolation at Frequency Band</b>	26 dB @ 555–2700 MHz
<b>Operating Frequency Band</b>	555 – 2700 MHz
<b>Peak Power, maximum</b>	1 kW
<b>Reflected Power, maximum</b>	40 W
<b>VSWR</b>	1.2

## Mechanical Specifications

<b>Coupling Nut Proof Torque</b>	4.5 N-m   39.828 in lb
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## Environmental Specifications

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

## Packaging and Weights

<b>Height, packed</b>	40 mm   1.575 in
<b>Width, packed</b>	90 mm   3.543 in
<b>Length, packed</b>	180 mm   7.087 in
<b>Volume</b>	648 cc   39.543 in <sup>3</sup>
<b>Weight, gross</b>	0.42 kg   0.926 lb
<b>Weight, net</b>	0.38 kg   0.838 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

# C-6-CPUSE-N-A16

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