

# C-20-CPUSE-43-AI6

20 dB, Low PIM Air Directional Coupler, 555–2700 MHz



## OBSOLETE

This product was discontinued on: **October 31, 2019**

### Replaced By:

C-20-UW-43-AI6      20 dB, Air Directional Coupler, 555–6000 MHz

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Product Type</b>	Directional coupler

## General Specifications

<b>Device Type</b>	Coupler
<b>Application</b>	Indoor/Outdoor
<b>Color</b>	Silver
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	4.3-10 Female
<b>Outer Contact Plating</b>	Trimetal

## Dimensions

<b>Height</b>	22 mm   0.866 in
<b>Width</b>	75 mm   2.953 in
<b>Length</b>	158 mm   6.22 in

## Electrical Specifications

<b>3rd Order IMD</b>	-162 dBc
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers

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<b>Insertion Loss at Frequency Band</b>	0.2 dB @ 555–2700 MHz
<b>Return Loss, minimum</b>	20.8 dB
<b>Average Power, maximum</b>	300 W
<b>Coupling</b>	20 dB
<b>Coupling Tolerance</b>	±1.2dB @ 575–2700 MHz   ±1.5dB @ 555–575 MHz
<b>Impedance</b>	50 ohm
<b>Isolation at Frequency Band</b>	40 dB @ 555–2700 MHz
<b>Operating Frequency Band</b>	555 – 2700 MHz
<b>Peak Power, maximum</b>	1 kW
<b>Reflected Power, maximum</b>	200 W
<b>VSWR</b>	1.2

## Mechanical Specifications

<b>Coupling Nut Proof Torque</b>	7 N-m   61.955 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>	45 mm   1.772 in
<b>Width, packed</b>	75 mm   2.953 in
<b>Length, packed</b>	180 mm   7.087 in
<b>Weight, gross</b>	0.43 kg   0.948 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

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