

# C-20-CPUSE-D-Ai6



20 dB, Air Directional Coupler, 555–2700 MHz

## Product Classification

**Product Type** Directional coupler

## General Specifications

**Device Type** Coupler  
**Interface** 7-16 DIN Female  
**Color** Silver

## Electrical Specifications

**Operating Frequency Band** 555 – 2700 MHz  
**3rd Order IMD** -160.0 dBc  
**3rd Order IMD Test Method** Two +43 dBm carriers  
**Average Power, maximum** 300 W  
**Coupling** 20.0 dB  
**Coupling Tolerance**  $\pm 1.0$  dB @ 698–2700 MHz |  $\pm 2.0$  dB @ 555–698 MHz  
**Impedance** 50 ohm  
**Insertion Loss at Frequency Band** 0.2 dB @ 555–2700 MHz  
**Isolation at Frequency Band** 40 dB @ 555–2700 MHz  
**Peak Power, maximum** 1 kW  
**Reflected Power, maximum** 200 W  
**Return Loss, minimum** 20.8 dB  
**VSWR** 1.2:1

## Mechanical Specifications

**Coupling Nut Proof Torque** 25.00 N-m | 18.44 ft lb  
**Inner Contact Plating** Silver  
**Outer Contact Plating** Trimetal

## Environmental Specifications

**Application** Indoor/Outdoor

# C-20-CPUSE-D-Ai6

---

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

## Dimensions

<b>Height</b>	36.00 mm   1.42 in
<b>Length</b>	169.00 mm   6.65 in
<b>Width</b>	74.50 mm   2.93 in
<b>Net Weight</b>	900.00 g   1.98 lb

## Packed Dimensions

<b>Height</b>	65.0 mm   2.6 in
<b>Length</b>	170.0 mm   6.7 in
<b>Width</b>	110.0 mm   4.3 in
<b>Shipping Weight</b>	980.00 g   2.16 lb
<b>Volume</b>	1215.5 cc

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

