

# C-13-CPUSE-43-Ai6

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



## Product Classification

**Product Type** Directional coupler

## General Specifications

**Device Type** Coupler  
**Interface** 4.3-10 Female  
**Color** Silver

## Electrical Specifications

**Operating Frequency Band** 555 – 2700 MHz  
**3rd Order IMD** -162.0 dBc  
**3rd Order IMD Test Method** Two +43 dBm carriers  
**Average Power, maximum** 300 W  
**Coupling** 13.0 dB  
**Coupling Tolerance**  $\pm 1.1$  dB @ 698–2700 MHz |  $\pm 1.5$  dB @ 555–698 MHz  
**Impedance** 50 ohm  
**Insertion Loss at Frequency Band** 0.5 dB @ 555–2700 MHz  
**Isolation at Frequency Band** 33 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** 7.00 N-m | 5.16 ft lb  
**Inner Contact Plating** Silver  
**Outer Contact Plating** Trimetal

## Environmental Specifications

**Application** Indoor/Outdoor  
**Ingress Protection Test Method** IEC 60529:2001, IP65

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<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>	22.00 mm   0.87 in
<b>Length</b>	158.00 mm   6.22 in
<b>Width</b>	75.00 mm   2.95 in
<b>Net Weight</b>	380.00 g   0.84 lb

## Packed Dimensions

<b>Height</b>	45.0 mm   1.8 in
<b>Length</b>	180.0 mm   7.1 in
<b>Width</b>	75.0 mm   3.0 in
<b>Shipping Weight</b>	430.00 g   0.95 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015

### Classification

Designed, manufactured and/or distributed under this quality management system

