

# C-13-CPUSE-D-Ai6



13 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** 13.0 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** 0.5 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** 25.00 N-m | 18.44 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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**Operating Temperature** -35 °C to +85 °C (-31 °F to +185 °F)  
**Relative Humidity** Up to 100%

## Dimensions

**Height** 36.00 mm | 1.42 in  
**Length** 169.00 mm | 6.65 in  
**Width** 74.50 mm | 2.93 in  
**Net Weight** 900.00 g | 1.98 lb

## Packed Dimensions

**Height** 65.0 mm | 2.6 in  
**Length** 170.0 mm | 6.7 in  
**Width** 110.0 mm | 4.3 in  
**Shipping Weight** 980.00 g | 2.16 lb  
**Volume** 1215.5 cc

## Regulatory Compliance/Certifications

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

