

# C-10-UW-43-Ai6

10 dB, Air Directional Coupler, 555–6000 MHz



## Product Classification

**Product Type** Directional coupler

## General Specifications

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

## Electrical Specifications

**Operating Frequency Band** 555 – 6000 MHz  
**3rd Order IMD** -165.0 dBc  
**3rd Order IMD Test Method** Two +43 dBm carriers  
**Average Power, maximum** 300 W  
**Coupling** 10.0 dB  
**Coupling Tolerance**  $\pm 1.2$ dB  
**Impedance** 50 ohm  
**Insertion Loss at Frequency Band** 0.8 dB @ 555–6000 MHz  
**Isolation at Frequency Band** 26 dB @ 3800–4900 MHz | 26 dB @ 4900–6000 MHz | 28 dB @ 2700–3800 MHz | 30 dB @ 555–2700 MHz  
**Peak Power, maximum** 1 kW  
**Reflected Power, maximum** 100 W  
**VSWR** 1.2:1 @ 555–2700 MHz | 1.25:1 @ 2700–3800 MHz | 1.3:1 @ 3800–6000 MHz

## 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, IP67  
**Operating Temperature** -35 °C to +85 °C (-31 °F to +185 °F)

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**Relative Humidity** Up to 100%

## Dimensions

**Height** 22.00 mm | 0.87 in  
**Length** 159.00 mm | 6.26 in  
**Width** 72.00 mm | 2.83 in  
**Net Weight** 380.00 g | 0.84 lb

## Packed Dimensions

**Height** 45.0 mm | 1.8 in  
**Length** 180.0 mm | 7.1 in  
**Width** 98.0 mm | 3.9 in  
**Shipping Weight** 440.00 g | 0.97 lb

## Regulatory Compliance/Certifications

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

