

# C-10-TCPUSE-N-Ai6

10 dB, Low PIM Air Directional Coupler, 340–2700 MHz



## Product Classification

**Product Type** Directional coupler

## General Specifications

**Device Type** Coupler  
**Interface** N Female  
**Color** Silver

## Electrical Specifications

**Operating Frequency Band** 340 – 2700 MHz  
**3rd Order IMD** -160.0 dBc  
**3rd Order IMD Test Method** Two +43 dBm carriers  
**Average Power, maximum** 200 W  
**Coupling** 10.0 dB  
**Coupling Tolerance**  $\pm 1.2$  dB @ 380–2700 MHz |  $\pm 1.7$  dB @ 340–380 MHz  
**Impedance** 50 ohm  
**Insertion Loss at Frequency Band** 0.8 dB @ 340–2700 MHz  
**Isolation at Frequency Band** 30 dB @ 340–2700 MHz  
**Peak Power, maximum** 1 kW  
**Reflected Power, maximum** 100 W  
**Return Loss, minimum** 20.8 dB  
**VSWR** 1.2:1

## Mechanical Specifications

**Inner Contact Plating** Silver  
**Outer Contact Plating** Trimetal

## Environmental Specifications

**Application** Indoor/Outdoor  
**Ingress Protection Test Method** IEC 60529:2001, IP65  
**Operating Temperature** -25 °C to +85 °C (-13 °F to +185 °F)

# C-10-TCPUSE-N-Ai6

---

**Relative Humidity** Up to 100%

## Dimensions

**Height** 23.00 mm | 0.91 in  
**Length** 211.00 mm | 8.31 in  
**Width** 76.00 mm | 2.99 in  
**Net Weight** 520.00 g | 1.15 lb

## Packed Dimensions

**Height** 42.0 mm | 1.7 in  
**Length** 258.0 mm | 10.2 in  
**Width** 77.0 mm | 3.0 in  
**Shipping Weight** 580.00 g | 1.28 lb

## Regulatory Compliance/Certifications

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

