OBSOLETE
This product was discontinued on: October 31, 2019

Replaced By
C-10-UW-N-Ai6  10 dB, Air Directional Coupler, 555–6000 MHz

Product Classification
Product Type  Directional coupler

General Specifications
Device Type  Coupler
Interface  N 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  200 W
Coupling  10.0 dB
Coupling Tolerance  ±1.0 dB @ 698–2700 MHz  |  ±2.0 dB @ 555–698 MHz
Impedance  50 ohm
Insertion Loss at Frequency Band  0.7 dB @ 575–2700 MHz
Isolation at Frequency Band  30 dB @ 555–2700 MHz
Peak Power, maximum  1.00 kW
Reflected Power, maximum  100 W
Return Loss, minimum  20.8 dB
VSWR  1.20

Mechanical Specifications
Coupling Nut Proof Torque  4.50 N-m  |  3.32 ft lb
Inner Contact Plating  Silver
Outer Contact Plating: Trimetal

Environmental Specifications

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

Dimensions

- **Height**: 22.00 mm | 0.87 in
- **Length**: 155.00 mm | 6.10 in
- **Width**: 75.00 mm | 2.95 in
- **Net Weight**: 380.00 g | 0.84 lb

Packed Dimensions

- **Height**: 40.0 mm | 1.6 in
- **Length**: 180.0 mm | 7.1 in
- **Width**: 90.0 mm | 3.5 in
- **Shipping Weight**: 420.00 g | 0.93 lb
- **Volume**: 648.0 cc

Regulatory Compliance/Certifications

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