



C-8-CPUSE-43-Ai6

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

General Specifications

Brand	Andrew®
Device Type	Coupler
Interface	4.3-10 Female
Color	Silver

Electrical Specifications

Operating Frequency Band	555 – 2700 MHz
3rd Order IMD	-162 dBc
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power, maximum	300 W
Coupling	8.0 dB
Coupling Tolerance	±1.0 dB @ 575–2700 MHz ±1.5 dB @ 555–575 MHz
Impedance	50 ohm
Insertion Loss at Frequency Band	1.1 dB @ 555–2700 MHz
Isolation at Frequency Band	28 dB @ 555–2700 MHz
Peak Power, maximum	1 kW
Reflected Power, maximum	70 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
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	158.00 mm 6.22 in
Width	75.00 mm 2.95 in
Net Weight	380.00 g 0.84 lb

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Packed Dimensions

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

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system