C-30-UW-N-AI6

30 dB, Air Directional Coupler, 555–6000 MHz



Product Classification

Regional Availability	Asia | Australia/New Zealand | EMEA | Latin America | North America
Product Type	Directional coupler

General Specifications

Device Type	Coupler
Application	Indoor/Outdoor
Color	Silver
Inner Contact Plating	Silver
Interface	N Female
Outer Contact Plating	Trimetal

Dimensions

Height	22 mm | 0.866 in
Width	72 mm | 2.835 in
Length	159 mm | 6.26 in

Electrical Specifications

3rd Order IMD	-163 dBc
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss at Frequency Band	0.2 dB @ 555–6000 MHz
Average Power, maximum	200 W
Coupling	30 dB
Coupling Tolerance	±1.5dB
Impedance	50 ohm
Isolation at Frequency Band	36 dB @ 4900–6000 MHz | 42 dB @ 3800–4900 MHz | 44 dB @ 2700–3800

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	MHz	46 dB @ 555–2700 MHz
Operating Frequency Band	555 – 6000 MHz
Peak Power, maximum	1 kW
Reflected Power, maximum	200 W
VSWR at Frequency Band	1.25:1 @ 2700–3800 MHz	1.2:1 @ 555–2700 MHz	1.3:1 @ 3800–6000 MHz

Mechanical Specifications

Coupling Nut Proof Torque	4.5 N-m	39.828 in lb

Environmental Specifications

Operating Temperature	-35 °C to +85 °C (-31 °F to +185 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Height, packed	45 mm	1.772 in
Width, packed	98 mm	3.858 in
Length, packed	180 mm	7.087 in
Weight, gross	0.44 kg	0.97 lb
Weight, net	0.38 kg	0.838 lb

Regulatory Compliance/Certifications

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

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