

# C-20-UW-43-A16

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20 dB, Air Directional Coupler, 555–6000 MHz



## Product Classification

**Product Type** Directional coupler

## General Specifications

**Device Type** Coupler  
**Application** Indoor/Outdoor  
**Color** White  
**Inner Contact Plating** Silver  
**Interface** 4.3-10 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** -165 dBc  
**3rd Order IMD Test Method** Two +43 dBm carriers  
**Insertion Loss at Frequency Band** 0.3 dB @ 555–6000 MHz  
**Average Power, maximum** 300 W  
**Coupling** 20 dB  
**Coupling Tolerance**  $\pm 1.35$  dB  
**Impedance** 50 ohm  
**Isolation at Frequency Band** 30 dB @ 4900–6000 MHz | 35 dB @ 555–2700 MHz | 36 dB @ 3800–4900 MHz | 38 dB @ 2700–3800 MHz

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

## Mechanical Specifications

<b>Coupling Nut Proof Torque</b>	7 N-m   61.955 in lb
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## Environmental Specifications

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

## Packaging and Weights

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

## Regulatory Compliance/Certifications

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

