



CBC721-DF

Crossband Coupler, 698–960 MHz/1710–2170 MHz

Electrical Specifications

dc Pass-through	Band 1 Band 2
3rd Order IMD Test Method	Two +43 dBm carriers
3rd Order IMD, maximum	-110 dBm
Isolation Between Paths, minimum	60.0 dB
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications (Branch 1)

Operating Frequency Band	698 – 960 MHz
Insertion Loss, maximum	0.15 dB
Output Power, maximum composite	500 W
Peak Power	5 kW
Return Loss at Frequency Band, minimum	20 dB @ 698–960 MHz
Return Loss at Frequency Band, typical	24 dB @ 698–894 MHz
Total Group Delay, maximum	10 ns

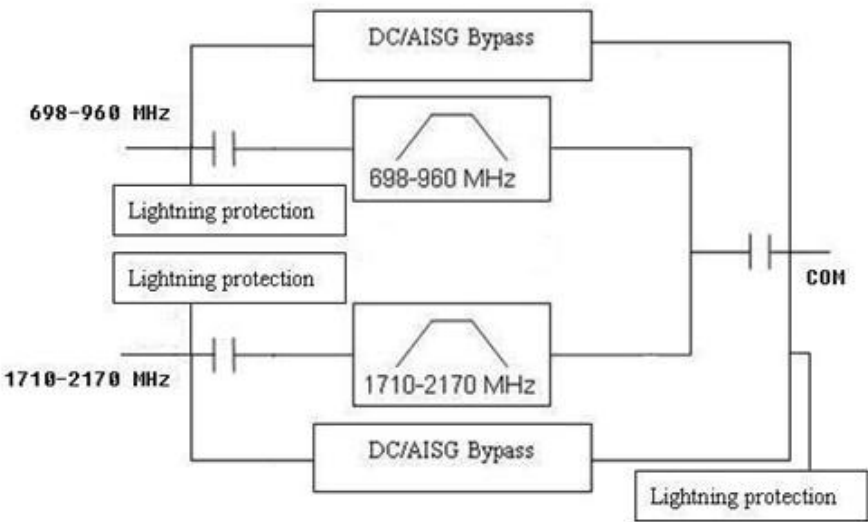
Electrical Specifications (Branch 2)

Operating Frequency Band	1710 – 2170 MHz
Insertion Loss, maximum	0.20 dB
Output Power, maximum composite	500 W
Peak Power	5 kW
Return Loss at Frequency Band, minimum	20 dB @ 1710–2170 MHz 22 dB @ 1850–1990 MHz
Return Loss at Frequency Band, typical	24 dB @ 1850–1990 MHz
Total Group Delay, maximum	10 ns

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Block Diagram



General Specifications

Product Type	Diplexer
Application	Indoor Outdoor
Includes	Mounting hardware

Mechanical Specifications

Color	Gray
Connector Interface	7-16 DIN Female
Connector Interface Style	Medium neck
Ground Screw Diameter	0.25 in

Environmental Specifications

Ingress Protection Test Method	IEC 60529:2001, IP67
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%–100%

Dimensions

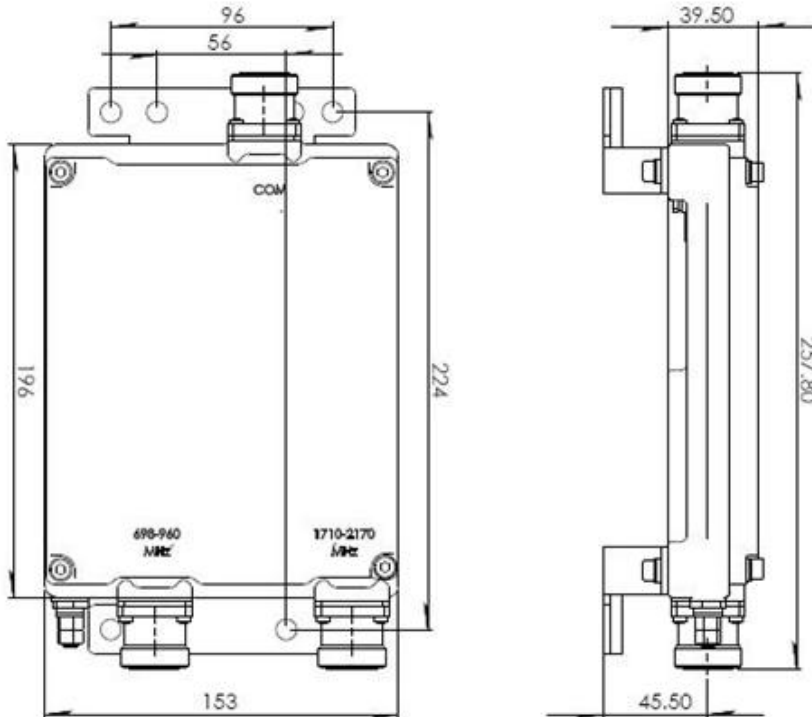
Depth	39.5 mm 1.6 in
Height	196.0 mm 7.7 in
Volume	1.2 L
Width	153.0 mm 6.0 in
Weight, without mounting hardware	2.0 kg 4.4 lb

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POWERED BY



Outline Drawing



Regulatory Compliance/Certifications

Agency

ISO 9001:2008

Classification

Designed, manufactured and/or distributed under this quality management system