

CBC721-DF-2X | E15V95P24



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

OBSOLETE

This product was discontinued on: October 31, 2018

Replaced By:

CBC426T-DS-43 E14F05P31	Twin Diplexer, 380–960 MHz/1695–2690 MHz,dc Sense,4.3-10
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Product Classification

Product Type	Coupler
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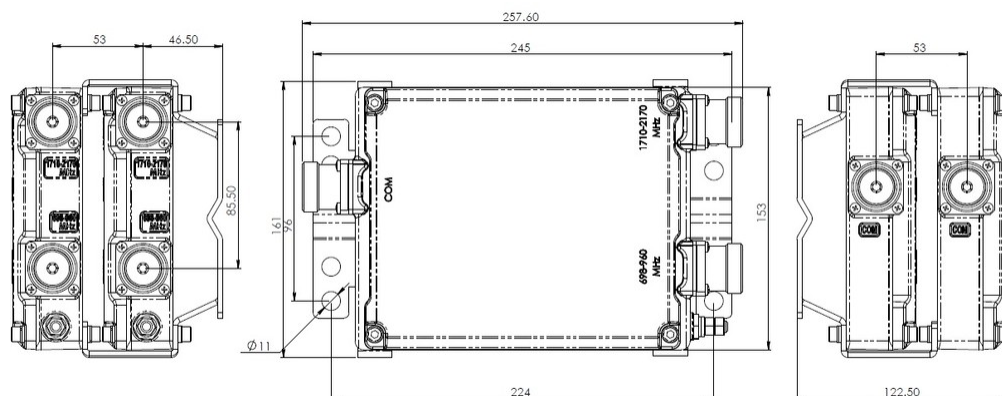
General Specifications

Product Family	CBC721
Color	Gray
Common Port Label	COM
Modularity	2-Twin
Mounting	Pole Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Medium neck

Dimensions

Height	196 mm 7.717 in
Width	153 mm 6.024 in
Depth	94.5 mm 3.72 in
Ground Screw Diameter	6.35 mm 0.25 in

Outline Drawing



Impedance

50 ohm

License Band, Band Pass

APT 700 | AWS 1700 | CEL 850 | CEL 900 | DCS 1800 | EDD 800 | IMT
2100 | LMR 750 | LMR 800 | LMR 900 | PCS 1900 | USA 700 | USA 750

dc/AISG Pass-through, combiner

Branch 1 | Branch 2

dc/AISG Pass-through, demultiplexer

Branch 1 | Branch 2

Lightning Surge Current

10 kA

Lightning Surge Current Waveform

8/20 waveform

Sub-module	1 2	1 2	1 2	1 2
Branch	1	1	2	2
Port Designation	698–960	698-960	1710–2170	1710-2170
License Band	APT 700, Band Pass LMR 750, Band Pass LMR 800, Band Pass USA 700, Band Pass USA 750, Band Pass CEL 850, Band Pass EDD 800, Band Pass	LMR 900, Band Pass CEL 900, Band Pass	AWS 1700, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass	PCS 1900, Band Pass

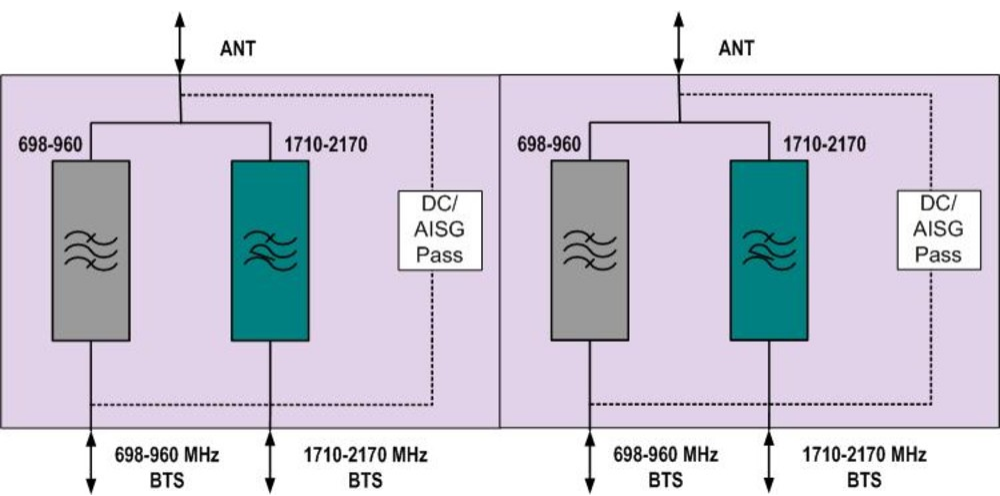
Frequency Range, MHz	698–894	894–960	1710–1850 1990–2170	1850–1990
Insertion Loss, maximum, dB	0.15	0.15	0.2	0.2

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Total Group Delay, maximum, ns	10	10	10	10
Return Loss, minimum, dB	20	20	20	22
Return Loss, typical, dB	24			24
Isolation, minimum, dB	60	60	60	60
Input Power, RMS, maximum, W	500	500	500	500
Input Power, PEP, maximum, W	5000	5000	5000	5000
3rd Order PIM, typical, dBc	-153	-153	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

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Block Diagram



Environmental Specifications

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

Packaging and Weights

Included	Mounting hardware
Volume	2.8 L
Weight, net	5.2 kg 11.464 lb

Regulatory Compliance/Certifications

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

