CBC78-DF-8-DCB | E15V95P05

Crossband Coupler, 698–787 MHz/Cellular, dc pass on 698–787 MHz port

OBSOLETE

This product was discontinued on: December 31, 2018

Replaced By:

CBC78-DS-43
E14F05P18

Diplexer 698-803/824-894 MHz, DC Sense, 4.3-10

Product Classification

Product Type	Coupler

General Specifications

Product Family	CBC78
Color	Gray
Common Port Label	COMM
Modularity	1-Single
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	200 mm | 7.874 in
Width	150 mm | 5.906 in
Depth	66.5 mm | 2.618 in
Ground Screw Diameter	6.35 mm | 0.25 in

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Outline Drawing
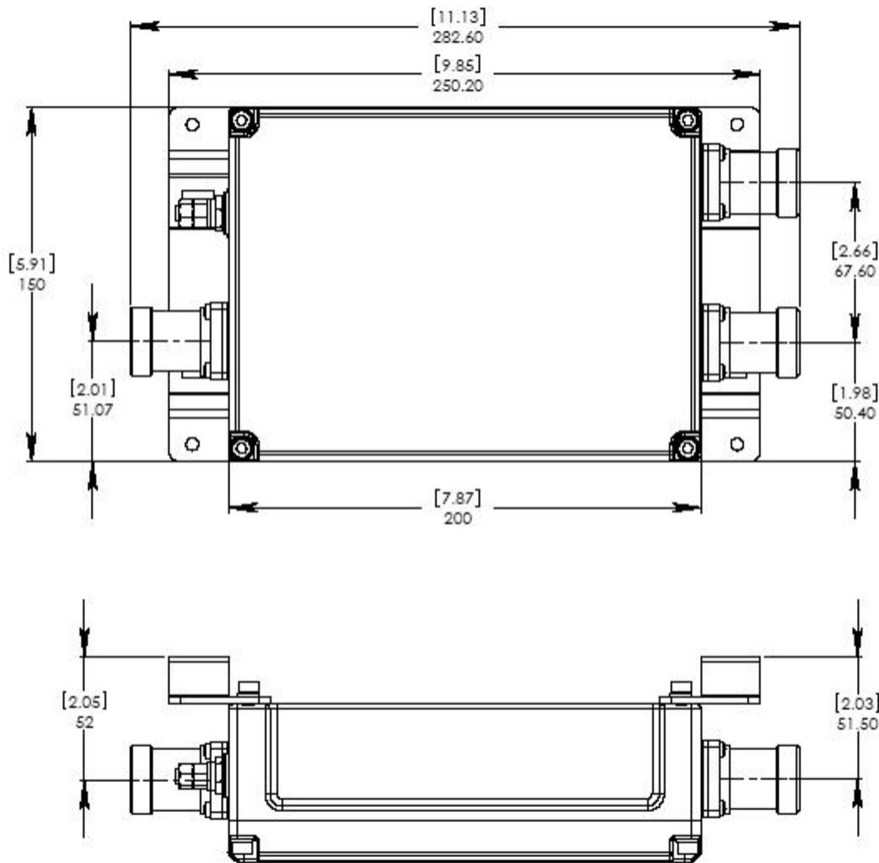
Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	CEL 850	USA 700	USA 750

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combiner	Branch 1
dc/AISG Pass-through, demultiplexer	Branch 1
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

Sub-module	1	1

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Branch	1	2
Port Designation	698-787	824-894
License Band	USA 700, Band Pass USA 750, Band Pass	CEL 850, Band Pass

Electrical Specifications, Band Pass

	698−787	**824−894**
Frequency Range, MHz	698−787	824−894
Insertion Loss, maximum, dB	0.25	0.25
Total Group Delay, maximum, ns	25	25
Return Loss, minimum, dB	22	22
Return Loss, typical, dB	24	24
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	500	500
Input Power, PEP, maximum, W	5000	5000
3rd Order PIM, typical, dBc	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram
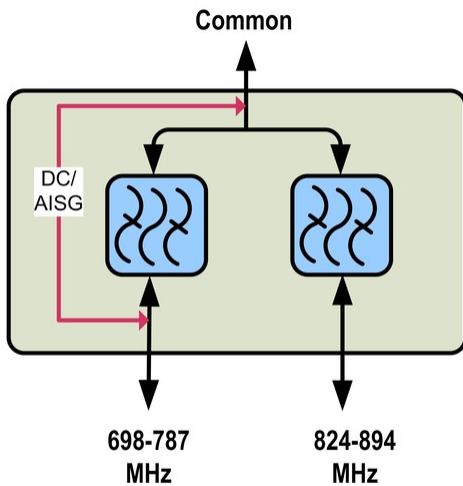
Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%−100%

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Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	2 L
Weight, net	3 kg | 6.614 lb

Regulatory Compliance/Certifications

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

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