CBC7821-8DCB-2X | E11F01P12

Twin Triplexer 700 and 750/Cellular/AWS and PCS, dc bypass on 700 / AWS and PCS ports

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OBSOLETE

This product was discontinued on: December 1, 2019

Replaced By:

CBC7823T-DS-43
E14F60P04

Twin Triplexer 700/850/1695-2360,dc Sense, 4.3-10

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Product Classification

Product Type	Triplexer

General Specifications

Product Family	CBC7821
Color	Gray
Common Port Label	COMMON
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	200 mm	7.874 in
Width	185 mm	7.283 in
Depth	140 mm	5.512 in
Ground Screw Diameter	6.35 mm	0.25 in
Mounting Pipe Diameter Range	40−160 mm

Outline Drawing

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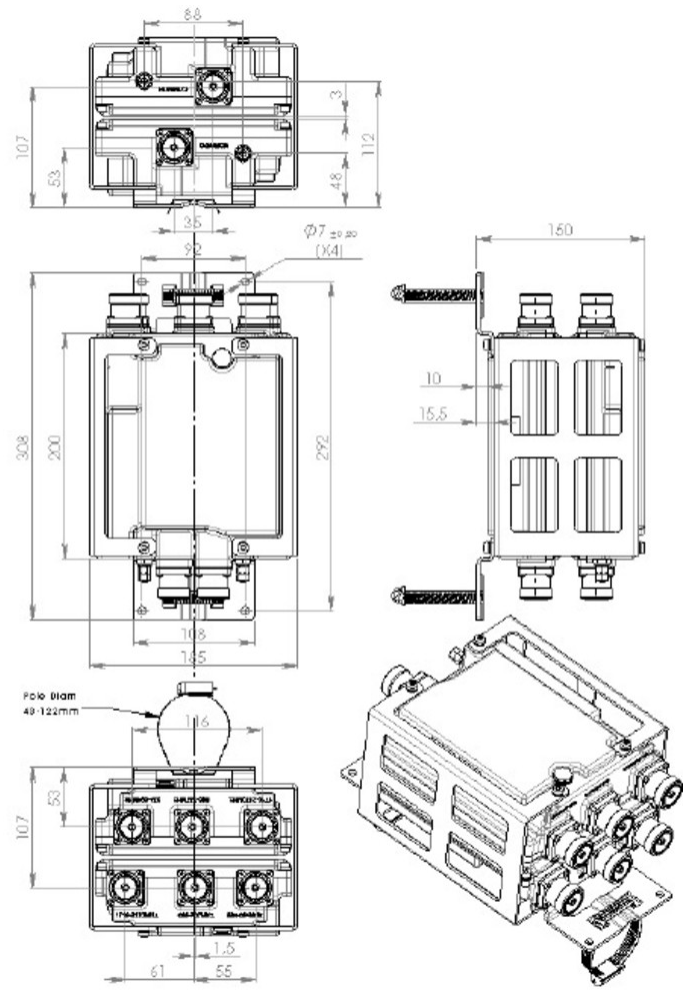
Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	AWS 1700	CEL 850	DCS 1800	IMT 2100	PCS 1900	USA 700	USA 750

Electrical Specifications, Common Port

Composite Power, RMS	500 W

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combiner	Branch 1	Branch 3
dc/AISG Pass-through, demultiplexer	Branch 1	Branch 3
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

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Electrical Specifications

Sub-module	1 | 2	1 | 2	1 | 2
Branch	1	2	3
Port Designation	698–787	824–894	1710–2170
License Band	USA 700, Band Pass USA 750, Band Pass	CEL 850, Band Pass	AWS 1700, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass PCS 1900, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	698–787	824–894	1710–2170
Insertion Loss, typical, dB	0.2	0.2	0.15
Total Group Delay, maximum, ns	30	30	6
Return Loss, minimum, dB	22	22	22
Return Loss, typical, dB	24	24	24
Isolation, minimum, dB	50	50	50
3rd Order PIM, typical, dBc	-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

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Block Diagram
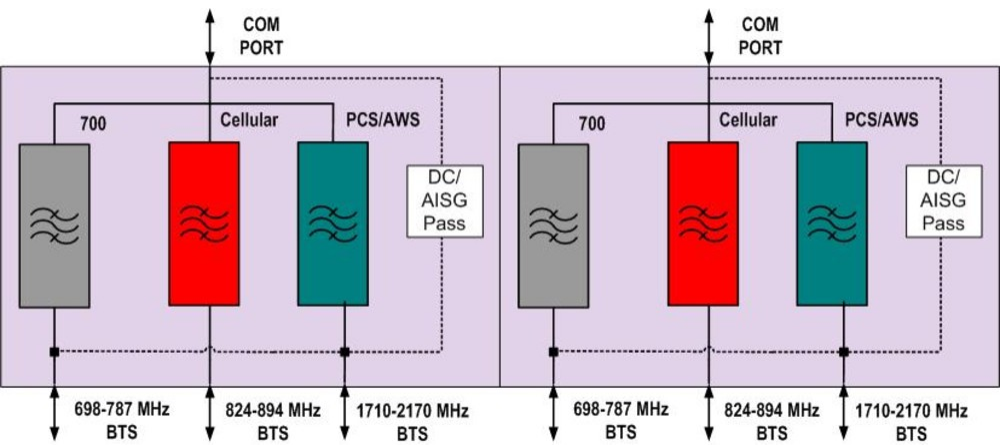
Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%–100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	5.2 L
Weight, net	7 kg	15.432 lb

Regulatory Compliance/Certifications

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

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