

Twin Triplexer 700/850/1695-2360,DC Sense

OBSOLETE

This product was discontinued on: October 31, 2018

Replaced By:

CBC7823T-DS-43 E14F60P04

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

7-16 DIN Female

Product Classification

Product Type Triplexer

General Specifications

Product Family CBC7823
Color Gray

Common Port Label COMMON

Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe Hardware Band clamps (2)

RF Connector Interface Body Style Long neck

Dimensions

RF Connector Interface

 Height
 225 mm | 8.858 in

 Width
 250 mm | 9.843 in

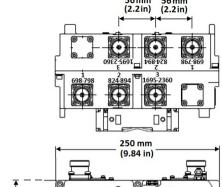
 Depth
 114 mm | 4.488 in

 Ground Screw Diameter
 6.35 mm | 0.25 in

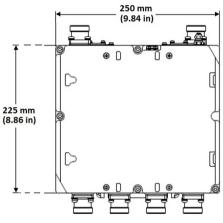
Mounting Pipe Diameter Range 40–160 mm

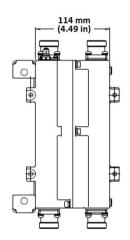


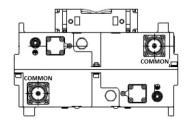
Outline Drawing



CBC7823T-DS Twin Triplexer







Electrical Specifications

Impedance 50 ohm

750 | WCS 2300

Electrical Specifications, Common Port

Composite Power, RMS 500 W

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through MethodAuto sensingdc/AISG Pass-through PathSee logic table

COMMSCOPE®

Lightning Surge Current

10 kA

Lightning Surge Current Waveform

8/20 waveform

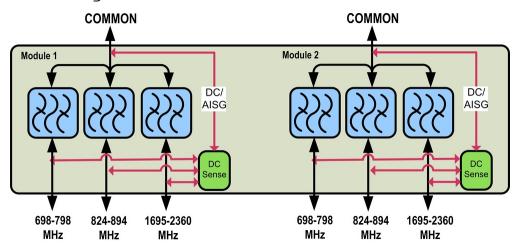
Electrical Specifications

Sub-module	1 2	1 2	1 2
Branch	1	2	3
Port Designation	698-798	824-894	1695-2360
License Band	USA 700, Band Pass USA 750, Band Pass	CEL 850, Band Pas	S AWS 1700, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass PCS 1900, Band Pass WCS 2300, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	698-798	824-894	1695-2360
Insertion Loss, typical, dB	0.3	0.3	0.3
Total Group Delay, maximum, ns	40	40	25
Total Group Delay, typical, ns	29	29	15
Return Loss, minimum, dB	20	20	20
Isolation, minimum, dB	50	50	50
Input Power, RMS, maximum, W	200	200	200
Input Power, PEP, maximum, W	2000	2000	2000
3rd Order PIM, typical, dBc	-155	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tone

Block Diagram





Logic Table

	Combining Mode Operation (Ground Based)			
		nput Voltage	RF Ports Ir	
DC/AISG Path Selection	COMMON	1695-2360 MHz	850 MHz	700 MHz
700 MHz to COMMON "ON"	<7	<7	<7	7 ≤ V ≤ 30
850 MHz to COMMON "ON"	<7	<7	7 ≤ V ≤ 30	<7
1695-2360MHz to COMMON"ON"	<7	7 ≤ V ≤ 30	<7	<7
Path selection will follow below priority: 1695-2360MHz(1), 700MHz (2), 850MHz (3)	<7	? 7 ≤ V ≤ 30	more ports active	Any 2 or

	Splitting Mode Operation (Tower Top)			
	RF Ports Impedance DC (Load sensing)			R
DC/AISG Path Selection	COMMON	1695-2360 MHz	850 MHz	700 MHz
COMMON to 700 MHz "ON"	7 ≤ V ≤ 30	short	short	open/load
COMMON to 850 MHz "ON"	7 ≤ V ≤ 30	short	open/load	short
COMMON to 1695-2360MHz "ON"	7 ≤ V ≤ 30	open/load	short	short
DC/AISG will be routed to ALL ports with open/load impedance	7 ≤ V ≤ 30	d impedance	ore ports open/loa	Any 2 or mo

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$

Relative Humidity 5%-100%

Ingress Protection Test MethodIEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Mounting Hardware Weight 0.5 kg | 1.102 lb

Volume 6.5 L

Weight, without mounting hardware 8 kg | 17.637 lb

Regulatory Compliance/Certifications

Agency Classification

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



