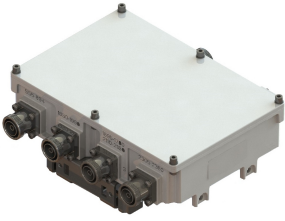


CBC6192123-DS | E11F23P03



Quadplexer, 555-894/PCS/AWS/WCS, DC Sense

- BTS-to-feeder and feeder-to-antenna application
- Automatic dc switching with dc sense
- Convertible mounting brackets

OBSOLETE

This product was discontinued on: May 31, 2019

Replaced By:

CQX6192123-DS-43
E12F23P03

Quadplexer, 617-894/PCS/AWS/WCS, DC Sense, 4.3-10

Product Classification

Product Type Quadplexer

General Specifications

Product Family CBC6192123

Color Gray

Common Port Label Common

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 175 mm | 6.89 in

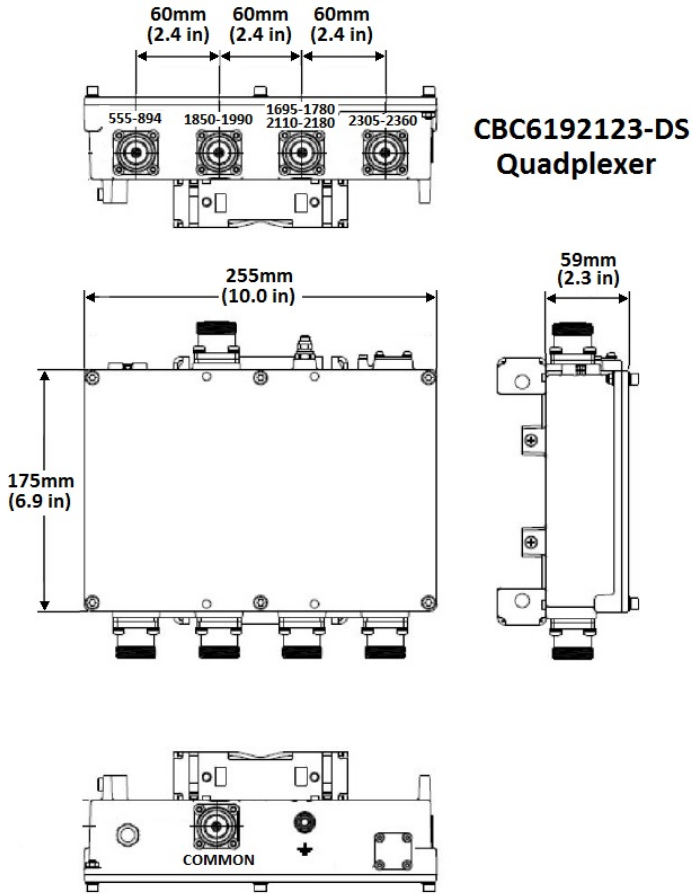
Width 255 mm | 10.039 in

Depth 59 mm | 2.323 in

Ground Screw Diameter 6 mm | 0.236 in

Mounting Pipe Diameter Range 40–160 mm

Outline Drawing



Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	AWS 1700 CEL 850 LMR 750 PCS 1900 USA 700 USA 750 WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	See logic table
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Current at Voltage	15 mA @ 12 V 15 mA @ 24 V
Voltage	7–30 Vdc

Electrical Specifications, AISG

AISG Carrier	2176 KHz ± 100 ppm
Insertion Loss, maximum	1 dB
Return Loss, minimum	15 dB

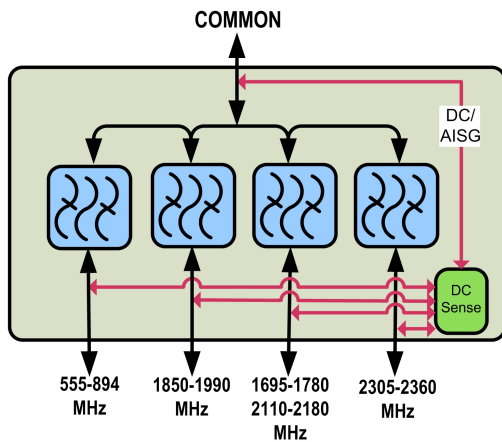
Electrical Specifications

Sub-module	1	1	1	1
Branch	1	2	3	4
Port Designation	555-894	AWS	PCS	WCS
License Band	CEL 850, Band Pass USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass	LMR 750, Band Pass USA 700, Band Pass USA 750, Band Pass	PCS 1900, Band Pass	WCS 2300, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	555–894	1695–1780 2110–2180	1850–1990	2305–2360
Insertion Loss, typical, dB	0.06	0.3	0.3	0.2
Total Group Delay, maximum, ns	5	25	30	25
Total Group Delay, typical, ns		20	17	20
Return Loss, typical, dB	22	22	22	22
Isolation, minimum, dB	50	50	50	50
Input Power, RMS, maximum, W	200	200	200	200
Input Power, PEP, maximum, W	2000	2000	2000	2000
3rd Order PIM, typical, dBc	-155	-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 tones	2 x 20 W CW tones

Block Diagram



Logic Table

Combining Mode Operation (Bottom)						
RF Ports Input Voltage					COMMON	DC/AISG Path Selection
555-894 MHz	1850-1990 MHz	1695-2180 MHz	2305-2360 MHz	COMMON		
$7 \leq V \leq 30$	<7	<7	<7	<7	555-894 MHz COMMON "ON" 1850-1990 MHz "OFF" 1695-2180 MHz "OFF" 2305-2360 MHz "OFF"	
<7	$7 \leq V \leq 30$	<7	<7	<7	555-894 MHz "OFF" 1850-1990MHz to COMMON "ON" 1695-2180MHz "OFF" 2305-2360 MHz "OFF"	
<7	<7	$7 \leq V \leq 30$	<7	<7	555-894 MHz "OFF" 824-894 MHz "OFF" 1695-2180 MHz to COMMON "ON" 2305-2360 MHz "OFF"	
<7	<7	<7	$7 \leq V \leq 30$	<7	555-894 MHz "OFF" 1850-1990MHz "OFF" 1695-2180 MHz "OFF" 2305-2360 MHz to COMMON "ON"	
$V < 7$ or $V > 30$	$V < 7$ or $V > 30$	$V < 7$ or $V > 30$	$V < 7$ or $V > 30$	$V < 7$ or $V > 30$	ALL ports OFF	
Any 2 or more ports $7 \leq V \leq 30$					ALL ports OFF	

Splitting Mode Operation (Tower Top)						
RF Ports Input Voltage					COMMON	DC/AISG Path Selection
555-894 MHz	1850-1990 MHz	1695-2180 MHz	2305-2360 MHz	COMMON		
<7	<7	<7	<7	$7 \leq V \leq 30$	ALL PORTS ON*	
$7 \leq V \leq 30$	<7	<7	<7	$7 \leq V \leq 30$	ALL ports OFF (Verified at Start Up)	
<7	$7 \leq V \leq 30$	<7	<7	$7 \leq V \leq 30$	ALL ports OFF (Verified at Start Up)	
<7	<7	$7 \leq V \leq 30$	<7	$7 \leq V \leq 30$	ALL ports OFF (Verified at Start Up)	
<7	<7	<7	$7 \leq V \leq 30$	$7 \leq V \leq 30$	ALL ports OFF (Verified at Start Up)	

* DC/AISG will pass to all 4 Band RF Ports, External DC blocks required for proper installation

Environmental Specifications

Operating Temperature

-40 °C to +65 °C (-40 °F to +149 °F)

CBC6192123-DS | E11F23P03

Corrosion Test Method IEC 60068-2-11, 30 days

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Mounting Hardware Weight 0.3 kg | 0.661 lb

Weight, net 5 kg | 11.023 lb

Weight, without mounting hardware 4.7 kg | 10.362 lb