CDX623T-DS-B-43 | E16V95P62



Twin Diplexer,555–894 MHz/1695–2360 MHz, dc sense, 4.3-10 Connectors, LOC-bottom

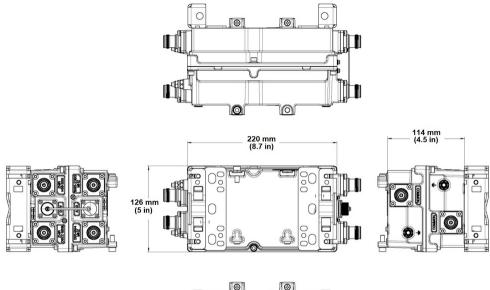
- Automatic dc switching with dc sense
- dc redundancy with dummy current sink
- Integrated layer one converter (AISG modem)
- New 4.3-10 connectors for improved PIM performance and size reduction
- Stackable in multiples with included hardware
- BTS-to-feeder application
- Convertible mounting brackets

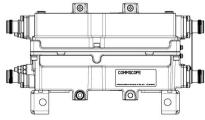
Product Type	Diplexer	
General Specifications		
Product Family	CDX623	
Common Port Label	Common	
Modularity	2-Twin	
Mounting	Frame Pole Rack Rod Wall	
Mounting Pipe Hardware	Band clamps (2)	
RF Connector Interface	4.3-10 Female	
Dimensions		
Height	220 mm 8.661 in	
Width	126 mm 4.961 in	
Depth	114 mm 4.488 in	
Ground Screw Diameter	6 mm 0.236 in	
Mounting Pipe Diameter Range	40-160 mm	

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Outline Drawing





Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 AWS 1700 CEL 850 DCS 1800 EDD 800 IMT 2100 LMR 750 LMR 800 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	14 mA @ 12 V 18 mA @ 24 V
Voltage	7-30 Vdc

Electrical Specifications, AISG

AISG Carrier

2176 KHz ± 100 ppm

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AISG Connector	8-pin DIN Male
AISG Connector Standard	IEC 60130-9
Insertion Loss, maximum	0.5 dB
Return Loss, minimum	15 dB

Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	555-894	1695-2360
License Band	APT 700, Band Pass CEL 850, Band Pass EDD 800, Band Pass LMR 750, Band Pass LMR 800, Band Pass USA 700, Band Pass	AWS 1700, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass PCS 1900, Band Pass WCS 2300, Band Pass

USA 750, Band Pass

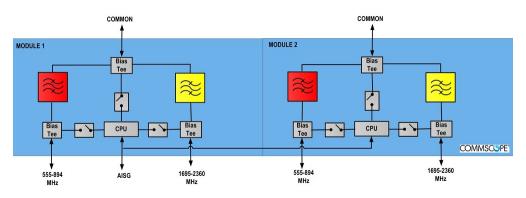
Electrical Specifications, Band Pass

Frequency Range, MHz	555-894	1695-2360
Insertion Loss, maximum, dB	0.15	0.15
Insertion Loss, typical, dB	0.1	0.1
Total Group Delay, maximum, ns	10	10
Return Loss, minimum, dB	22	22
Isolation, minimum, dB	55	55
Input Power, RMS, maximum, W	500	500
Input Power, PEP, maximum, W	5000	5000
3rd Order PIM, maximum, dBc	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

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Block Diagram



Logic Table

Combining Mode Operation (Ground Based)					
RF Ports Input Voltage					
AISG Port	555-894 MHz	1695-2360 MHz	COMMON	DC/AISG Path Selection	
				AISG to Common "ON"	
10-30 V	Any voltage	Any voltage	<7	555-894 MHz "OFF"	
				1695-2360 MHz "OFF"	
				AISG "OFF"	
<10 Any voltage >19 V	<10	Any voltage	>19 V	/ <7	555-894 MHz "OFF"
			1695-2360 MHz to COMMON "ON"		
				AISG "OFF"	
<10	7≤ V ≤ 30	<7 V	<7	555-894 MHz "ON"	
			1695-2360 MHz "OFF"		
				AISG "OFF"	
<10	<7 V	7≤ V ≤ 30	<7	555-894 MHz "OFF"	
			1695-2360 MHz to COMMON "ON"		

Splitting Mode Operation (Tower top) RF Ports Input Voltage				
AISG Port	555-894 MHz	1695-2360 MHz	COMMON	DC/AISG Path Selection
<10 V	Any voltage	Any voltage	>7 V	AISG "OFF" 555–894 MHz "OFF" 1695–2360 MHz to COMMON "ON"
Any 10-30 V	<7 V	<7 V	>7 V	ALL ports OFF

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

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Packaging and Weights

Included	Mounting hardware
Volume	3.2 L
Weight, with mounting hardware	4.8 kg 10.582 lb
Weight, without mounting hardware	4.5 kg 9.921 lb

Regulatory Compliance/Certifications

Classification

ISO 9001:2015

Agency

Designed, manufactured and/or distributed under this quality management system

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