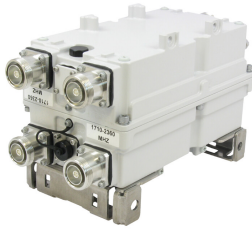


CDX723AT-DS-B | E15V95P49



Twin Diplexer, 698–894 MHz/1710–2360 MHz, dc sense, LOC-bottom

- Automatic dc switching with dc sense
- dc redundancy with dummy current sink
- Integrated layer one converter (AISG modem)
- Convertible mounting brackets
- BTS-to-feeder application
- Stackable to single unit with included hardware
- Stackable in multiples with included hardware

OBSOLETE

This product was discontinued on: March 30, 2024

Replaced By:

CDX623T-DS-B-43
E16V95P62

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

Product Classification

Product Type Diplexer

General Specifications

Product Family	CDX723A
Color	Gray
Common Port Label	Common
Modularity	2-Twin
Mounting	Frame Pole Rack Rod Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Medium neck

Dimensions

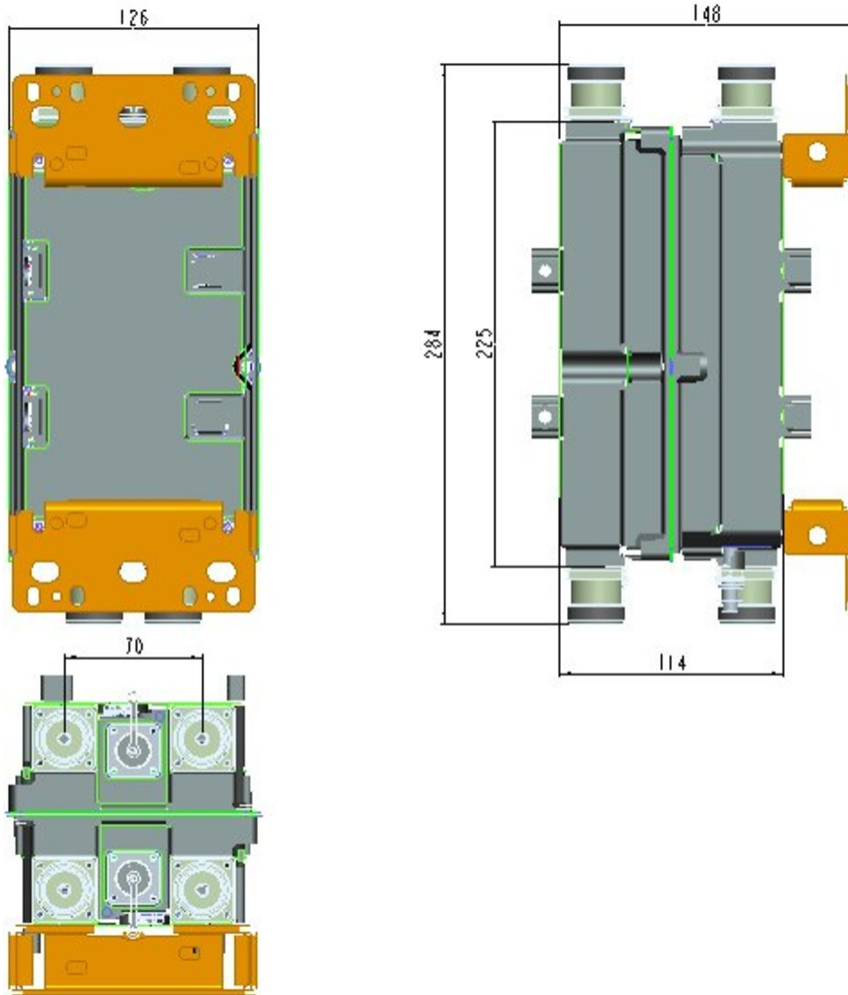
Height	225 mm 8.858 in
Width	125 mm 4.921 in
Depth	115 mm 4.528 in
Ground Screw Diameter	8 mm 0.315 in

CDX723AT-DS-B | E15V95P49

Mounting Pipe Diameter Range

40–160 mm

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, combiner

dc Sensing

dc/AISG Pass-through, demultiplexer

Branch 2

Lightning Surge Current

10 kA

Lightning Surge Current Waveform

8/20 waveform

CDX723AT-DS-B | E15V95P49

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

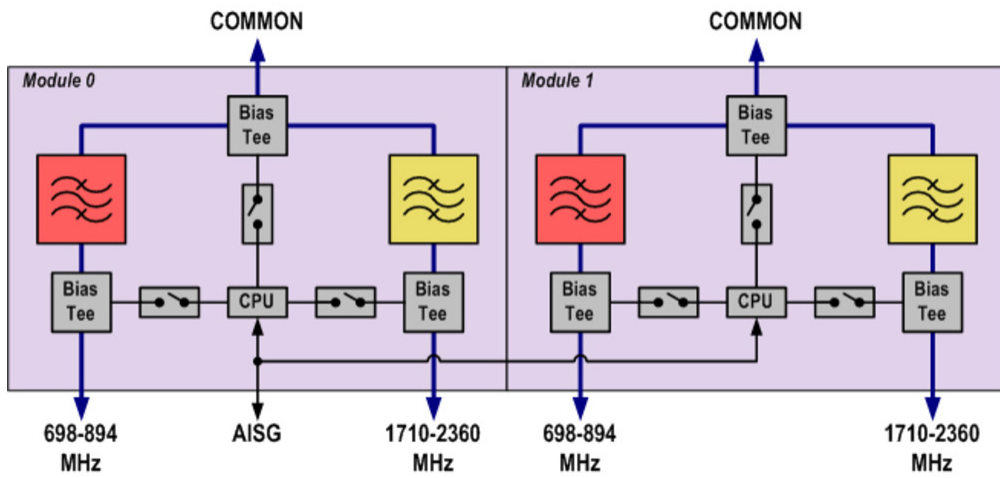
Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	698–894	1710–2360
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 USA 750, Band Pass	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	698–894	1710–2360
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
Return Loss, typical, dB	25	25
Isolation, minimum, dB	60	60
Input Power, RMS, maximum, W	500	500
Input Power, PEP, maximum, W	5000	5000
3rd Order PIM, typical, dBc	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram



Logic Table

Combining Mode Operation (Ground Based)				
RF Ports Input Voltage				
AISG Port	698–894 MHz	1710–2360 MHz	COMMON	DC/AISG Path Selection
10-30 V	Any voltage	Any voltage	<7	AISG to Common "ON" 698–894 MHz "OFF" 1710–2360 MHz "OFF"
<10	Any voltage	>19 V	<7	AISG "OFF" 698–894 MHz "OFF" 1710–2360 MHz to COMMON "ON"
<10	7 ≤ V ≤ 30	<7 V	<7	AISG "OFF" 698–894 MHz "ON" 1710–2360 MHz "OFF"
<10	<7 V	7 ≤ V ≤ 30	<7	AISG "OFF" 698–894 MHz "OFF" 1710–2360 MHz to COMMON "ON"

Splitting Mode Operation (Tower top)				
RF Ports Input Voltage				
AISG Port	698–894 MHz	1710–2360 MHz	COMMON	DC/AISG Path Selection
<10 V	Any voltage	Any voltage	>7 V	AISG "OFF" 698–894 MHz "OFF" 1710–2360 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

Packaging and Weights

Included	Mounting hardware
Volume	3.2 L
Weight, net	4.6 kg 10.141 lb

Regulatory Compliance/Certifications

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