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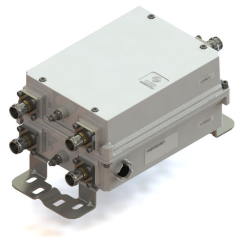

Twin Diplexer, 700/900 MHz, dc pass on all ports with 4.3-10 connectors

- Industry leading PIM performance
- Designed for network Modernization, introduction of LTE700 on existing site
- Twin configuration
- dc/AISG pass-through on all frequency ports
- New 4.3-10 connectors for improved PIM performance and size reduction

OBSOLETE

This product was discontinued on: December 31, 2024

Product Classification

Product Type	Diplexer

General Specifications

Product Family	CBC79X
Color	Gray
Common Port Label	Port 3
Modularity	2-Twin
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	230 mm | 9.055 in
Width	170 mm | 6.693 in
Depth	114 mm | 4.488 in
Mounting Pipe Diameter Range	42.6–122 mm

Outline Drawing

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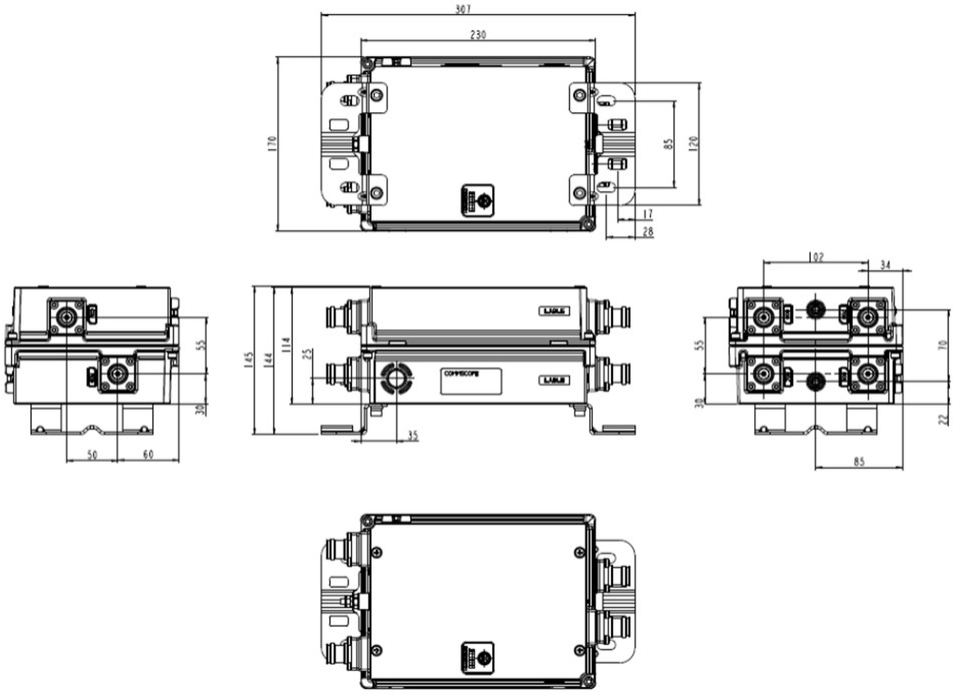


Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 | CEL 900 | EDD 800 | LMR 750

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combiner	Branch 1 | Branch 2
dc/AISG Pass-through, demultiplexer	Branch 1 | Branch 2
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

Sub-module	**1 | 2**	**1 | 2**
Branch	1	2
Port Designation	703-803	898.4-960
License Band	APT 700, Band Pass	CEL 900, Band Pass

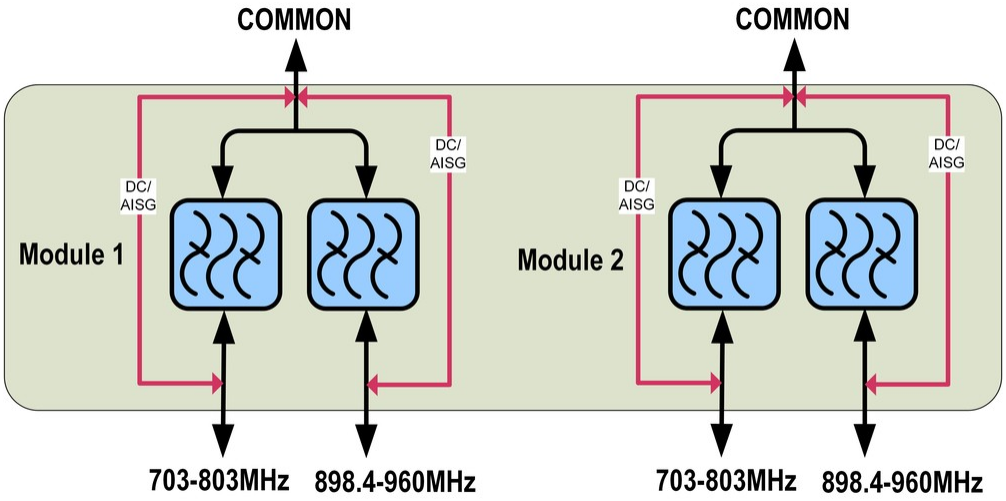
Electrical Specifications, Band Pass

Frequency Range, MHz	**703–803**	**898.4–960**

E12F13P25

Insertion Loss, typical, dB	0.2	0.2
Return Loss, minimum, dB	18	18
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-158	-158
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram



Environmental Specifications

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

Packaging and Weights

Included	Mounting hardware
Weight, net	5.4 kg | 11.905 lb

Regulatory Compliance/Certifications

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