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Twin Diplexer, 700/900 MHz, dc smart by pass on all ports with 4.3-10 connectors, Rejection 48.5 dB in 930-940 MHz

- Designed for network Modernization, introduction of LTE700 on existing site
- New 4.3-10 connectors for improved PIM performance and size reduction
- Twin configuration
- DC/AISG SMART bypass functionality

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	255 mm | 10.039 in
Width	155 mm | 6.102 in
Depth	118 mm | 4.646 in
Mounting Pipe Diameter Range	42.6–122 mm

Outline Drawing

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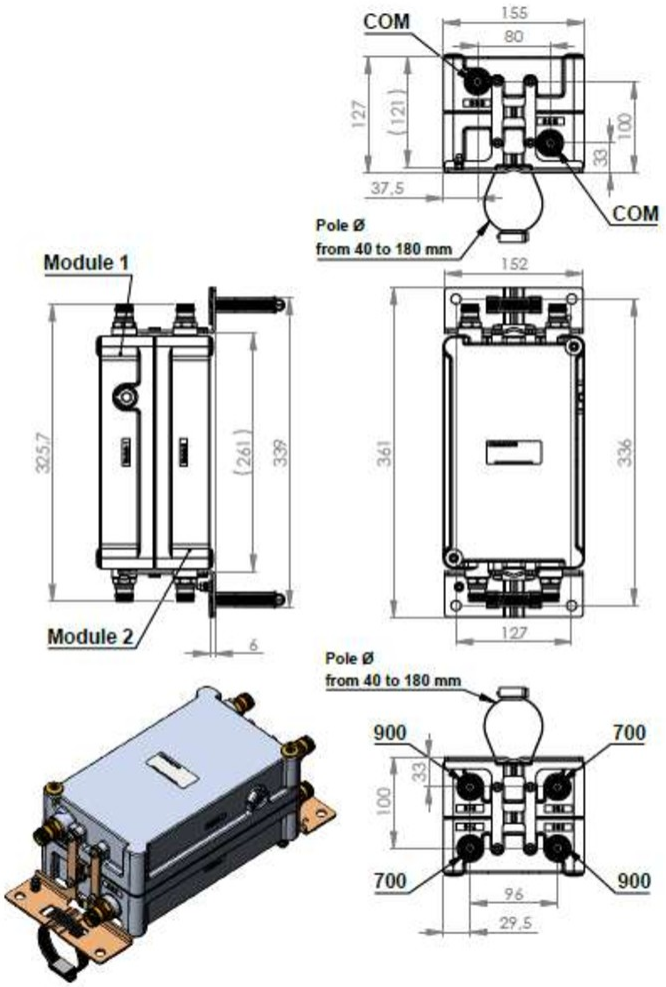

Electrical Specifications

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

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	Auto sensing circuitry detects dc/AISG signal presence and selects path
dc/AISG Pass-through, combiner	Autosensing
dc/AISG Pass-through, demultiplexer	Autosensing
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

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Electrical Specifications

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

Electrical Specifications, Band Pass

Frequency Range, MHz	**718–803**	**900–915** **945–960**
Insertion Loss, typical, dB	0.3	0.6
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	100	100
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, maximum, dBc	-155	-158
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Electrical Specifications, Band Reject

Frequency Range, MHz	**930–940**
Attenuation, minimum, dB	49

Electrical Specifications, Band Reject

Frequency Range, MHz	**718–890**
Attenuation, minimum, dB	35

Electrical Specifications, Band Reject

Frequency Range, MHz	**1427.9–1437.9**
Attenuation, minimum, dB	50

Electrical Specifications, Band Reject

Frequency Range, MHz	**1475.9–1485.9**
Attenuation, minimum, dB	50

Electrical Specifications, Band Reject

Frequency Range, MHz	**1960–1980**
Attenuation, minimum, dB	50

Electrical Specifications, Band Reject

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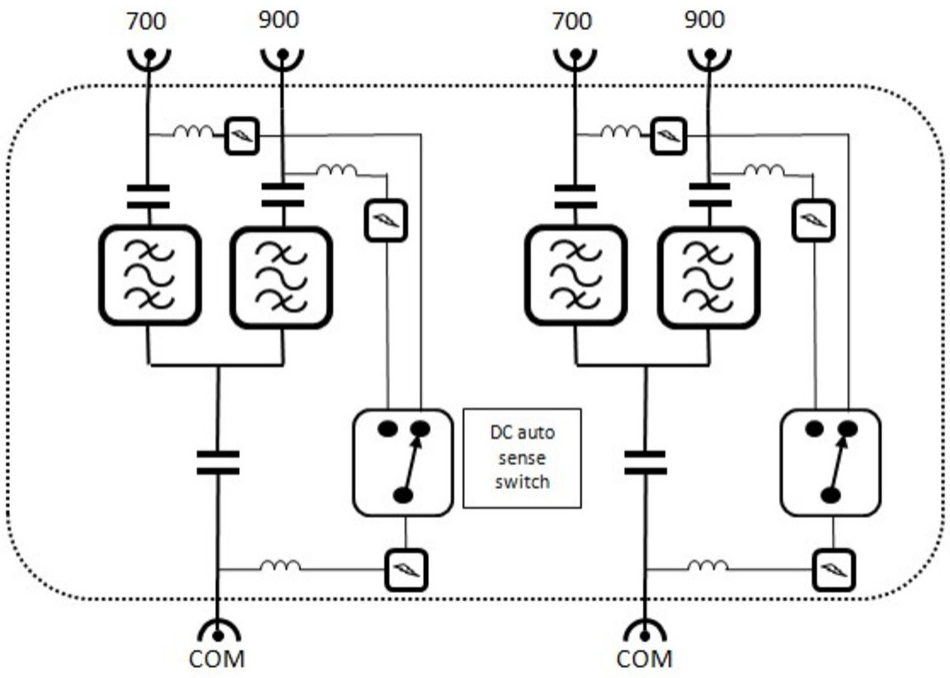
Frequency Range, MHz	**2150–2170**
Attenuation, minimum, dB	50

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
Volume	4.7 L
Weight, net	6.2 kg | 13.669 lb

Regulatory Compliance/Certifications

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