

E14F55P18-V

Diplexer, 700/900 MHz, RJ40, dc block on all ports with 4.3-10 connectors

- Industry leading PIM performance
- dc/AISG blocking on all ports
- Single configuration
- New 4.3-10 connectors for improved PIM performance and size reduction

OBSOLETE

This product was discontinued on: December 30, 2024

Product Classification

Product Type Diplexer

General Specifications

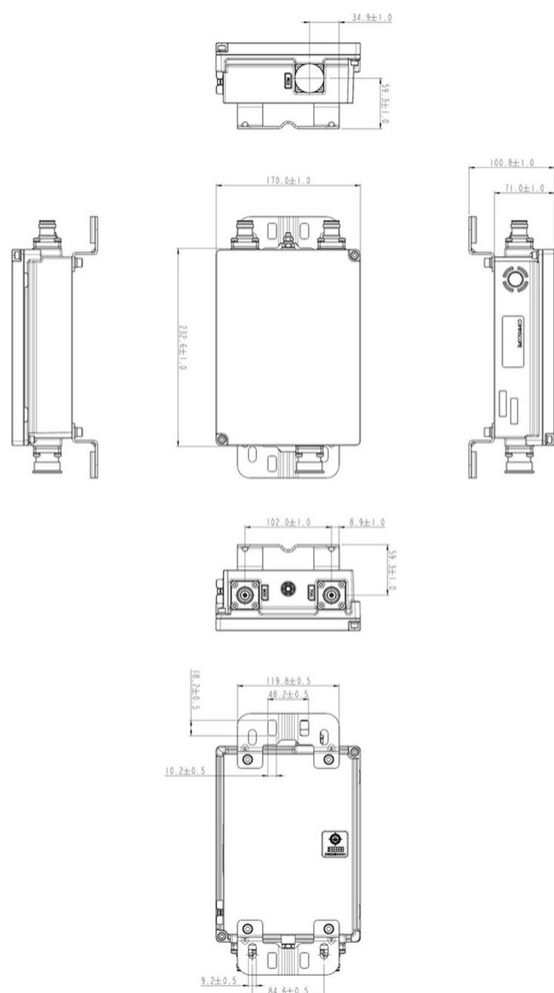
Product Family	CBC79X
Color	Gray
Common Port Label	Port 3
Modularity	2-Twin
Mounting	Pole Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	307 mm 12.087 in
Width	170 mm 6.693 in
Depth	101 mm 3.976 in
Ground Screw Diameter	5 mm 0.197 in
Mounting Pipe Diameter Range	42.6–122 mm

Outline Drawing

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Electrical Specifications

Insertion Loss Ripple, maximum	0.2 dB
Electrical Safety Standard	EN 60950
Electromagnetic Compatibility/Interference (EMC/EMI)	EN 55022 ETSI 301 489-1 V1.8.1
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	No dc/AISG pass-through
dc/AISG Pass-through, combiner	dc/AISG blocking on all ports
dc/AISG Pass-through, demultiplexer	dc/AISG blocking on all ports
Lightning Surge Current	10 kA

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Lightning Surge Current Waveform

8/20 waveform

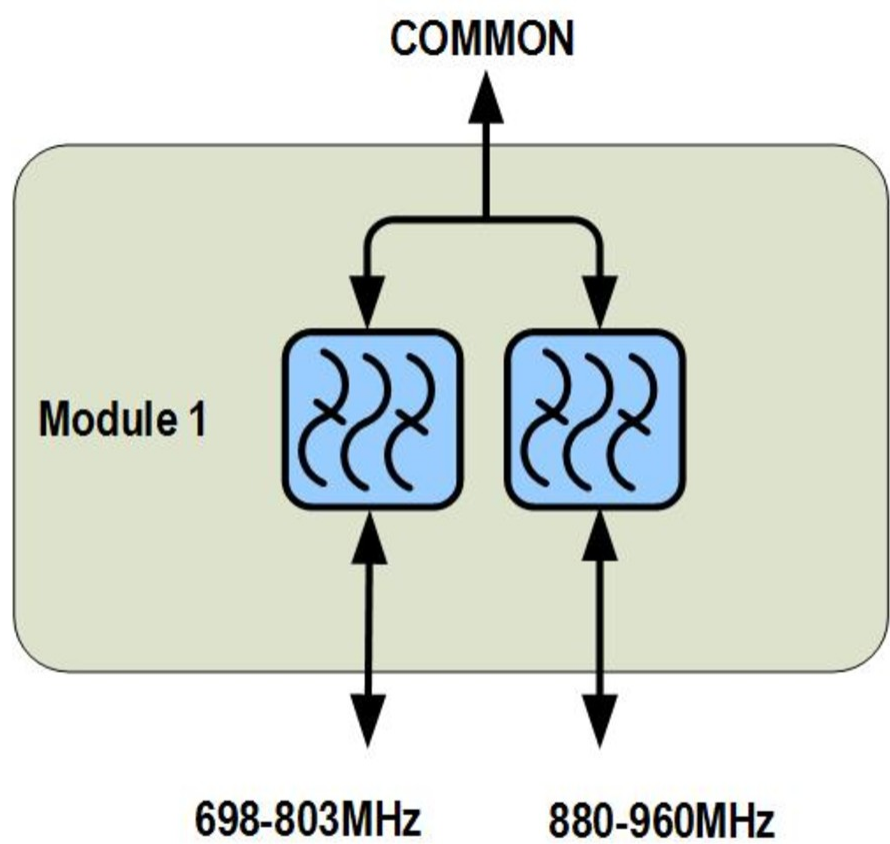
Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	698-803	880-960
License Band	APT 700, Band Pass	CEL 900, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	698–803	880–960
Insertion Loss, maximum, dB	0.5	0.5
Insertion Loss, typical, dB	0.25	0.25
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Isolation, typical, dB	55	55
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-158	-158
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram



DC/AISG blocking on all ports

Material Specifications

Finish

Painted

Mechanical Specifications

Mechanical Shock Test Method

IEC 60068-2-27

Wind Speed, maximum

200 km/h (124 mph)

Environmental Specifications

Operating Temperature

-30 °C to +70 °C (-22 °F to +158 °F)

Corrosion Test Method

IEC 60068-2-11, 30 days

Environmental Test Method

ETSI EN 300 019-1-4

Ingress Protection Test Method

IEC 60529:2001, IP67

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Mean Time Between Failures, minimum	1000000 h
Thermal Shock Test Method	IEC 60068-2-14
UV Resistance Test Method	IEC 60068-2-5
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Included	Mounting hardware
Volume	2.8 L
Weight, net	4.1 kg 9.039 lb

Regulatory Compliance/Certifications

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