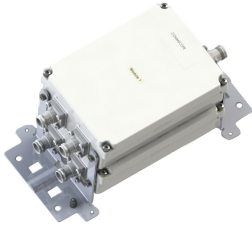# E14F05P0790

Twin Diplexer, 2S-DPX D2-800/900 DC Block All ports, 4.3-10 connectors

- New 4.3-10 connectors for improved PIM performance and size reduction
- Industry leading PIM performance
- Twin configuration
- Designed for network modernization application, introduction of LTE700 and LTE800 on existing site
- dc/AISG blocking on all ports

Product Classification

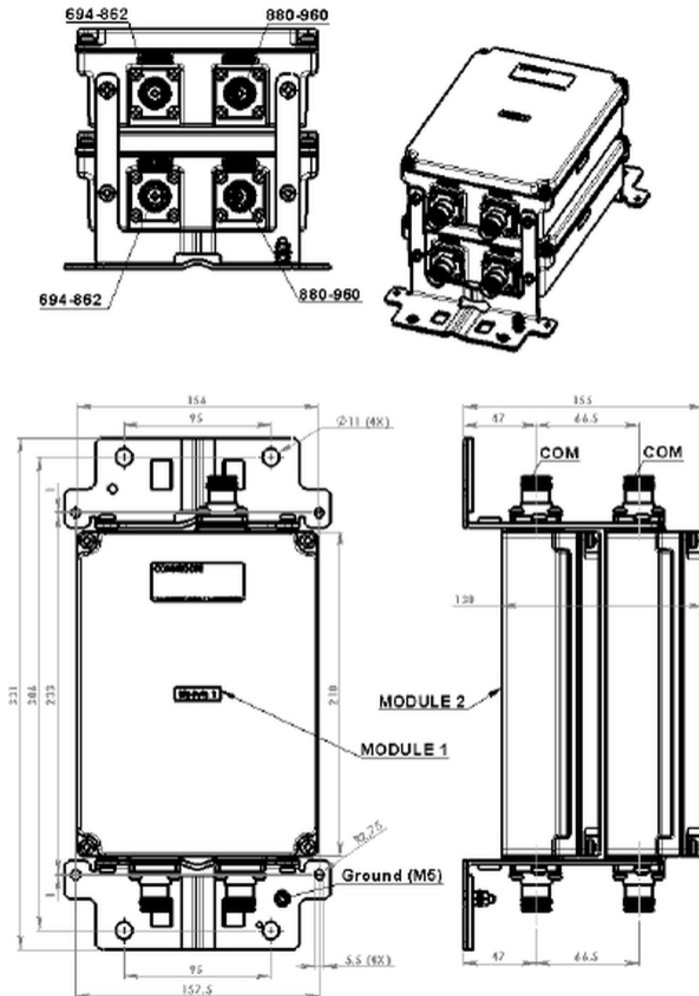|	
Product Type	Diplexer

General Specifications

Product Family	CBC789
Color	Gray
Common Port Label	PORT 3 COMMON
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	130 mm | 5.118 in
Width	210 mm | 8.268 in
Depth	156 mm | 6.142 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	CEL 900	EDD 800	LMR 800

Electrical Specifications, dc Power/Alarm

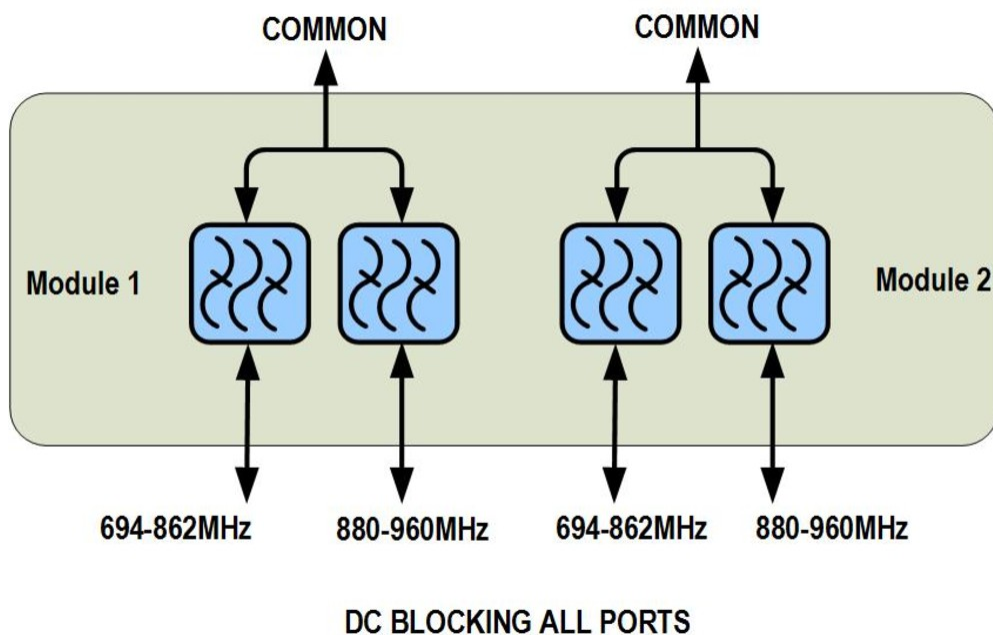|	
dc/AISG Pass-through Method	No dc/AISG pass-through
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

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Sub-module	1 | 2	1 | 2
Branch	1	2
Port Designation	PORT 1 694-862	PORT 2 880-960
License Band	APT 700, Band Pass EDD 800, Band Pass LMR 800, Band Pass	CEL 900, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	694–862	880–960
Insertion Loss, typical, dB	0.2	0.2
Return Loss, typical, dB	22	22
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	300	300
Input Power, PEP, maximum, W	3000	3000
3rd Order PIM, typical, dBc	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram

COMMON   **COMMON**

Module 1   Module 2

694-862MHz   880-960MHz   694-862MHz   880-960MHz

DC BLOCKING ALL PORTS

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Corrosion Test Method	IEC 60068-2-11, 30 days

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Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	4.2 L
Weight, net	5.2 kg	11.464 lb

Regulatory Compliance/Certifications

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

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