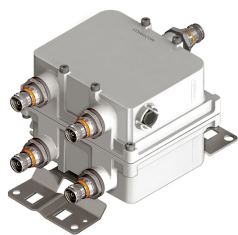# E14F05P77

Twin Diplexer 700/800 DC Bypass at 800MHz port, 4.3-10 connectors

- New 4.3-10 connectors for improved PIM performance and size reduction
- Industry leading PIM performance
- Designed for network modernization application, introduction of LTE700 and LTE800 on existing site
- dc/AISG pass-through on high frequency ports
- Clam shell configuration

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	139 mm | 5.472 in
Width	169 mm | 6.654 in
Depth	125 mm | 4.921 in
Mounting Pipe Diameter Range	40–160 mm

Outline Drawing

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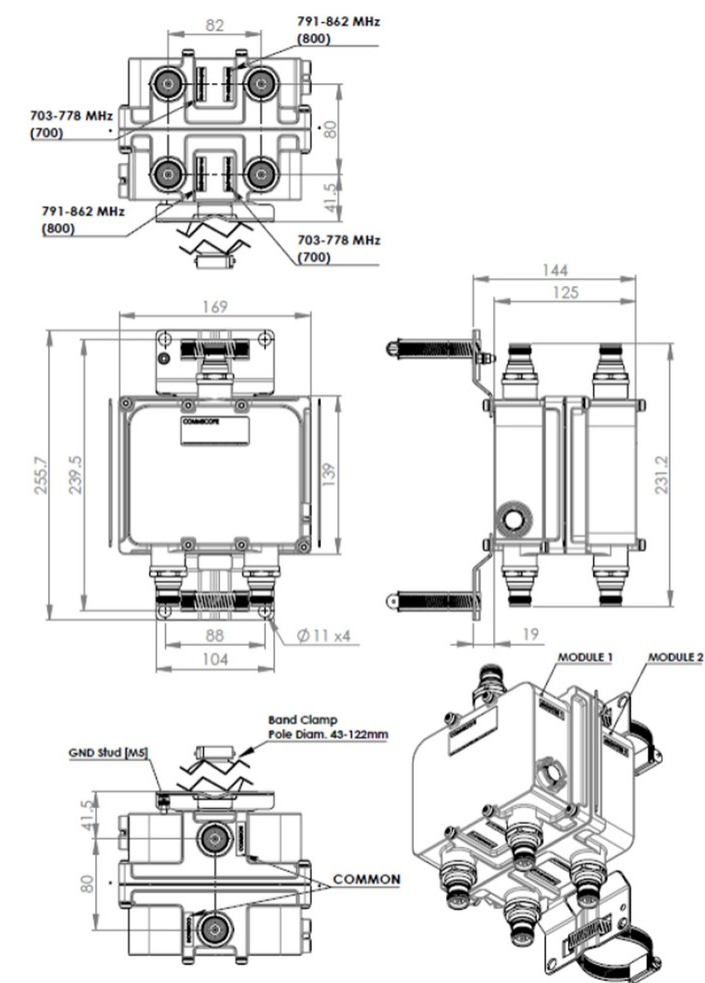
Electrical Specifications

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

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 2
dc/AISG Pass-through, combiner	Branch 2
dc/AISG Pass-through, demultiplexer	Branch 2
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	PORT 1 703-778	PORT 2 790-862
License Band	APT 700, Band Pass USA 700, Band Pass	EDD 800, Band Pass LMR 800, Band Pass

Electrical Specifications, Band Pass

	703–778	790–862
Frequency Range, MHz	703–778	790–862
Insertion Loss, typical, dB	0.3	0.3
Return Loss, typical, dB	20	20
Isolation, minimum, dB	35	35
Input Power, RMS, maximum, W	300	300
Input Power, PEP, maximum, W	3000	3000
3rd Order PIM, typical, dBc	-163	-163
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram
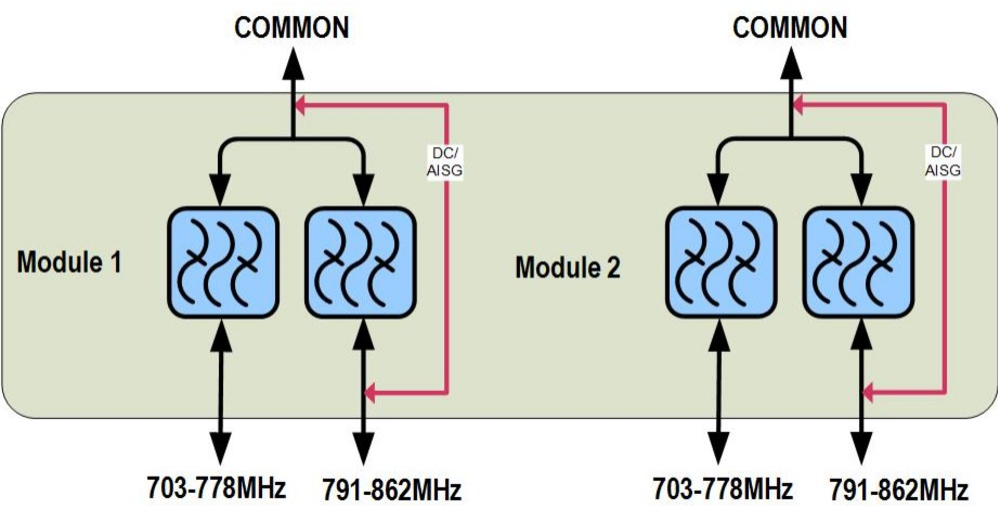
Environmental Specifications

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

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Packaging and Weights

Included	Mounting hardware
Volume	2.9 L
Weight, net	4 kg	8.818 lb
Weight, without mounting hardware	3.6 kg	7.937 lb

Regulatory Compliance/Certifications

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

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