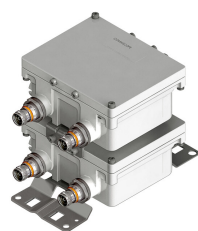


E14F05P81



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
- Twin 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 165 mm | 6.496 in

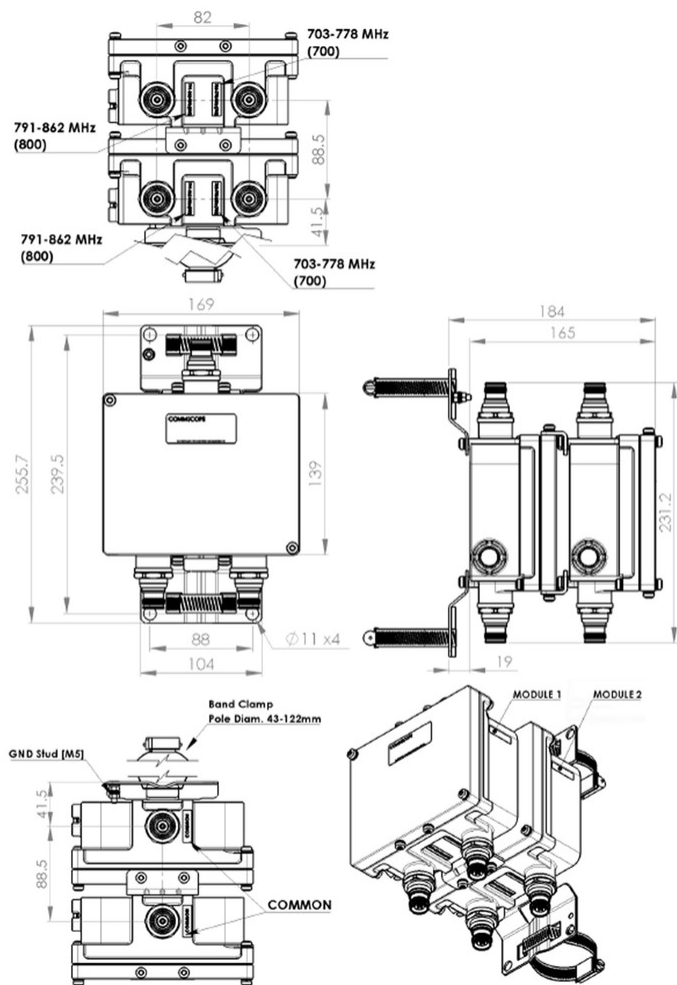
Width 169 mm | 6.654 in

Depth 139 mm | 5.472 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 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

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Lightning Surge Current Waveform 8/20 waveform

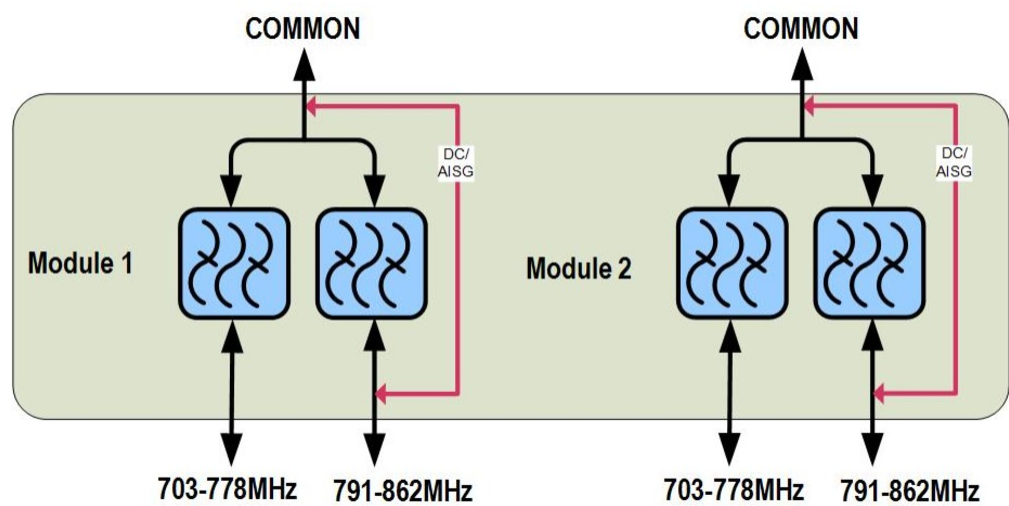
Electrical Specifications

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

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	200	200
Input Power, PEP, maximum, W	2000	2000
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

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Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	3.9 L
Weight, net	5 kg 11.023 lb
Weight, without mounting hardware	4.5 kg 9.921 lb

Regulatory Compliance/Certifications

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