

E14F05P99



Ultra Compact Quad Diplexer 1800/2100, 4.3-10 connectors

- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network modernization application, introduction of LTE 4x4 MIMO
- Quad configuration, 4x4 MIMO ready

OBSOLETE

This product was discontinued on: **December 31, 2023**

Replaced By:

E14F06P71

Quad Diplexer, 1800/2100-2600, dc block all ports, with 4.3-10 connectors

Product Classification

Product Type Diplexer

General Specifications

Product Family CBC1821

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 144.5 mm | 5.689 in

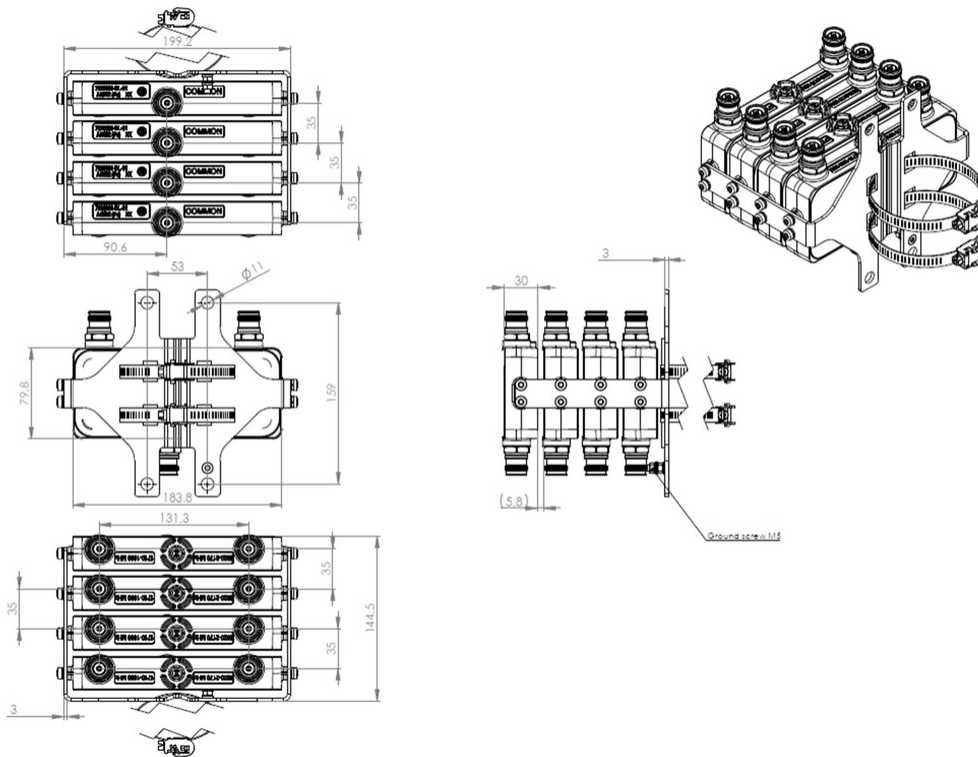
Width 199.2 mm | 7.843 in

Depth 79.8 mm | 3.142 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 DCS 1800 EDD 800 IMT 2100

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	5 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

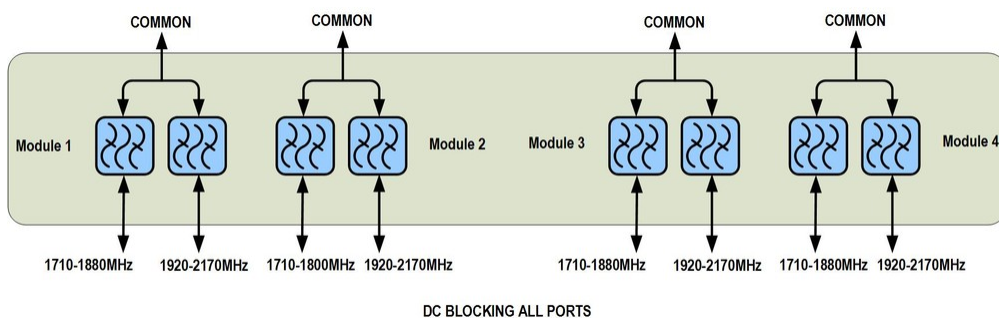
Sub-module	1 2	1 2
Branch	1	2
Port Designation	PORT 1 1710-1880	PORT 2 1920-2170
License Band	DCS 1800, Band Pass IMT 2100, Band Pass	

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Electrical Specifications, Band Pass

Frequency Range, MHz	1710–1880	1920–2170
Insertion Loss, typical, dB	0.3	0.3
Return Loss, typical, dB	20	20
Isolation, typical, dB	40	40
Input Power, RMS, maximum, W	125	125
Input Power, PEP, maximum, W	1200	1200
3rd Order PIM, typical, dBc	-158	-158
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

Packaging and Weights

Included	Mounting hardware
Volume	2.2 L
Weight, net	4.2 kg 9.259 lb
Weight, without mounting hardware	3.4 kg 7.496 lb

Regulatory Compliance/Certifications

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

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