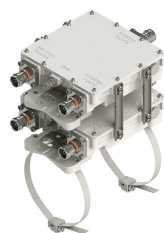


E14F05P17-V



Twin Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass all ports, with 4.3-10 connectors

- Industry leading PIM performance
- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on all frequency ports
- Isolation >60dB in 1710-1730/1805-1825 band
- Isolation >60dB in 1965-1980/2155-2170 band

OBSOLETE

This product was discontinued on: December 30, 2024

Replaced By:

E14F05P17

Twin Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass 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

149 mm | 5.866 in

Width

214 mm | 8.425 in

Depth

117 mm | 4.606 in

RF Connector Length

25 mm | 0.984 in

Ground Screw Diameter

5 mm | 0.197 in

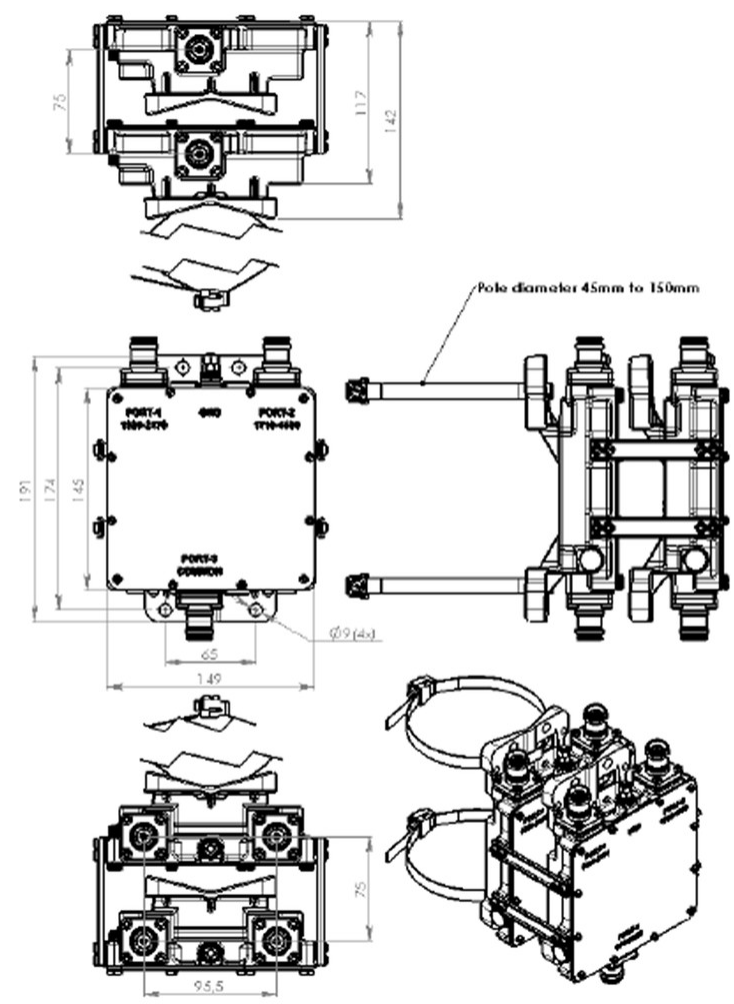
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Mounting Pipe Diameter Range

40–160 mm

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Outline Drawing



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	DCS 1800 IMT 2100

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1 Branch 2

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dc/AISG Pass-through, combiner	Branch 1 Branch 2
dc/AISG Pass-through, demultiplexer	Branch 1 Branch 2
Lightning Surge Current	3 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications, AISG

AISG Pass-through Current, maximum	2 A
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Electrical Specifications

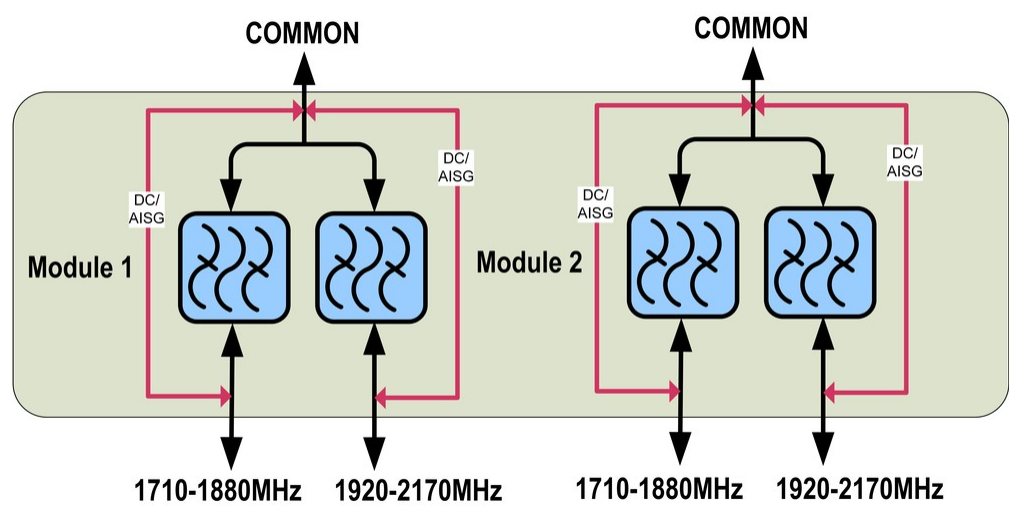
Sub-module	1 2	1 2
Branch	1	2
Port Designation	PORT 2 1710-1880	PORT 1 1920-2170
License Band	DCS 1800, Band Pass	IMT 2100, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	1710–1880	1920–2170
Insertion Loss, maximum, dB	0.4	0.4
Insertion Loss, typical, dB	0.15	0.15
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Isolation, typical, dB	54	54
Input Power, RMS, maximum, W	250	250
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-160	
3rd Order PIM Test Method	Two +43 dBm carriers	
7th Order PIM, typical, dBc		-160
7th Order PIM Test Method		Two +43 dBm carriers

Block Diagram

E14F05P17-V



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

-40 °C to +60 °C (-40 °F to +140 °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

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

2.6 L

Weight, net

3.9 kg | 8.598 lb

Weight, without mounting hardware

3.8 kg | 8.378 lb

Regulatory Compliance/Certifications

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