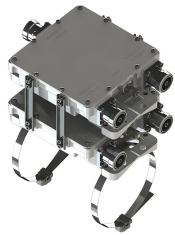# E11F05P84

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

- Industry leading PIM performance
- Designed for network Modernization, introduction of LTE1800 on existing site
- Designed for network Modernization, introduction of UMTS2100 on existing site
- Twin configuration

<div style="border:1px solid red">

OBSOLETE

This product was discontinued on: December 31, 2023

Replaced By:

E14F05P17   Twin Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass all ports, with 4.3-10 connectors

</div>

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	7-16 DIN Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	149 mm | 5.866 in
Width	145 mm | 5.709 in
Depth	117 mm | 4.606 in
Mounting Pipe Diameter Range	40–160 mm

Outline Drawing

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E11F05P84
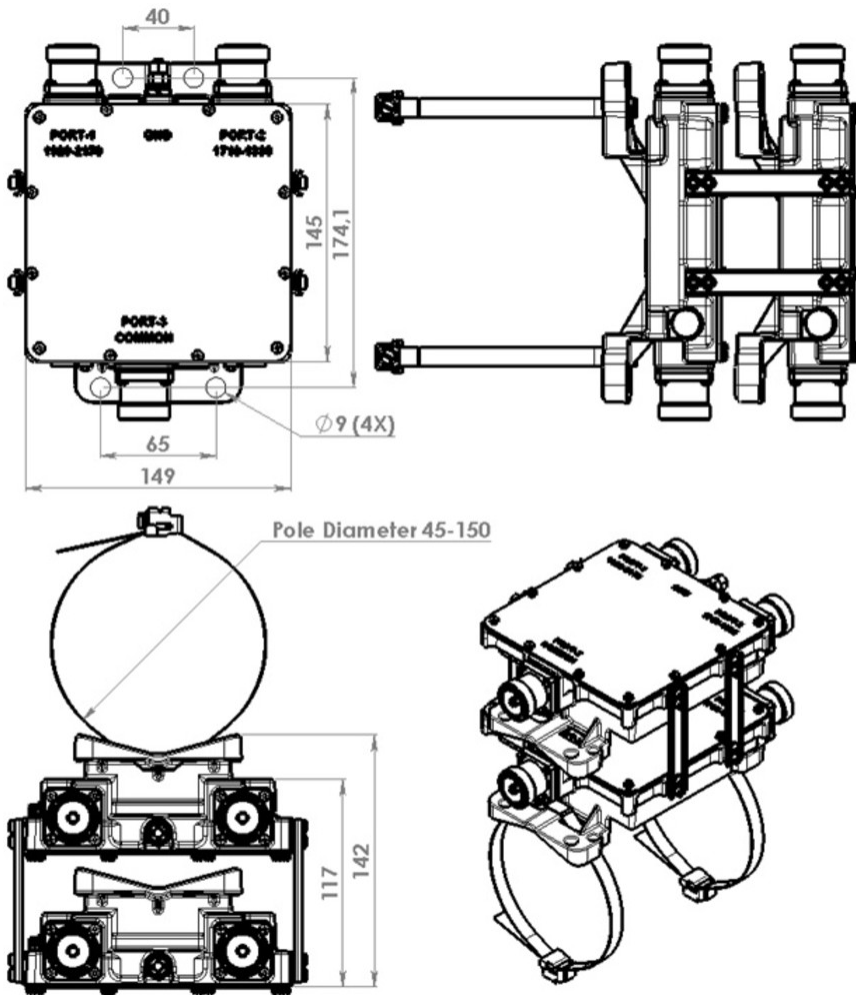
Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	DCS 1800	IMT 2100

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combiner	Branch 2
dc/AISG Pass-through, demultiplexer	Branch 2
Lightning Surge Current	3 kA
Lightning Surge Current Waveform	10/350 waveform

Electrical Specifications

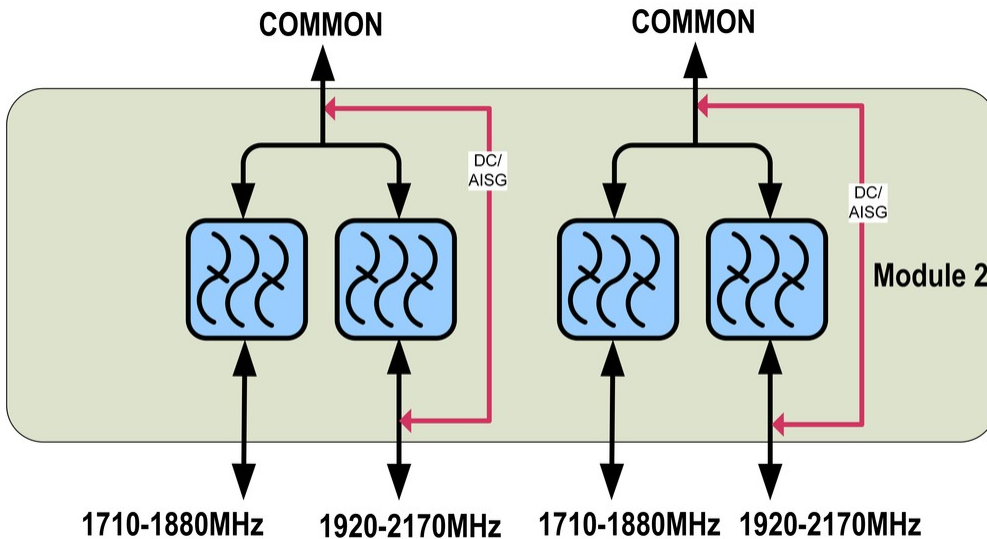|		
Sub-module	**1 | 2**	**1 | 2**

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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, typical, dB	0.15	0.25
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	250	250
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-161	
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers
7th Order PIM, typical, dBc		-168

Block Diagram

COMMON   **COMMON**

DC/AISG   DC/AISG   Module 2

1710-1880MHz   **1920-2170MHz**   **1710-1880MHz**   **1920-2170MHz**

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °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	2.5 L
Weight, net	3.5 kg | 7.716 lb

Regulatory Compliance/Certifications

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

ISO
9001:2015

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