

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

- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on all frequency ports

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

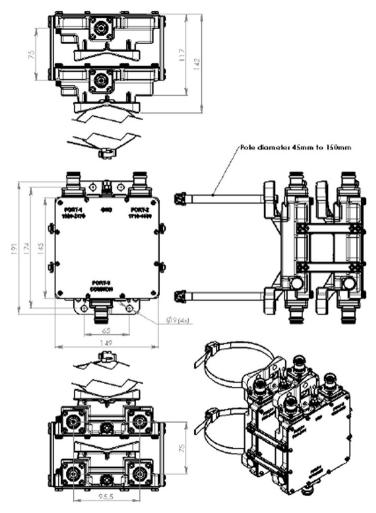
Product Type	Diplexer
General Specifications	
Product Family	CBC1821
Color	Gray
Common Port Label	PORT 3 COMMON
Modularity	2-Twin
Mounting	Pole Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck
Dimensions	
Height	149 mm 5.866 in
Width	145 mm 5.709 in
Depth	117 mm 4.606 in
Mounting Pipe Diameter Range	40-160 mm

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Outline Drawing



Electrical Specifications

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

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1 Branch 2
dc/AISG Pass-through, combiner	Branch 1 Branch 2
dc/AISG Pass-through, demultiplexer	Branch 1 Branch 2
Lightning Surge Current	3 kA

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Lightning Surge Current Waveform	10/350 wavefor	10/350 waveform		
Electrical Specifications, AISG				
AISG Pass-through Current, maximum	2 A			
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 Pas	s IMT 2100, Band Pass		
Electrical Specifications, Band Pass				
Frequency Range, MHz	1710-1880	1920-2170		
Insertion Loss, typical, dB	0.25	0.35		
Return Loss, minimum, dB	18	18		
Return Loss, typical, dB	20	20		
Isolation, minimum, dB	50	50		

250

2500

-158

Two +43 dBm carriers

7th Order PIM Test Method

Input Power, RMS, maximum, W

Input Power, PEP, maximum, W

3rd Order PIM, typical, dBc

3rd Order PIM Test Method

7th Order PIM, typical, dBc

50 250 2500 -165 Two +43 dBm

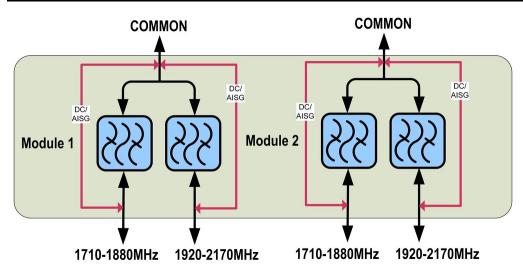
carriers

Block Diagram

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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

Packaging and Weights

Included	Mounting hardware
Volume	2.5 L
Weight, net	3.5 kg 7.716 lb

Classification

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

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