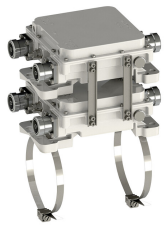
E11F03P14



Twin Diplexer, DCS 1800/UMTS 2100, AISG compatible, (DC Smart Bypass)

- 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
- DC/AISG SMART bypass functionality

OBSOLETE

This product was discontinued on: July 1, 2022

Replaced By:

E14F05P22	Twin Diplexer, DCS 1800/UMTS 2100, AISG compatible, (DC Smart Bypass), with 4.3-10 connectors.

Product Classification

Product Type	Diplexer

General Specifications

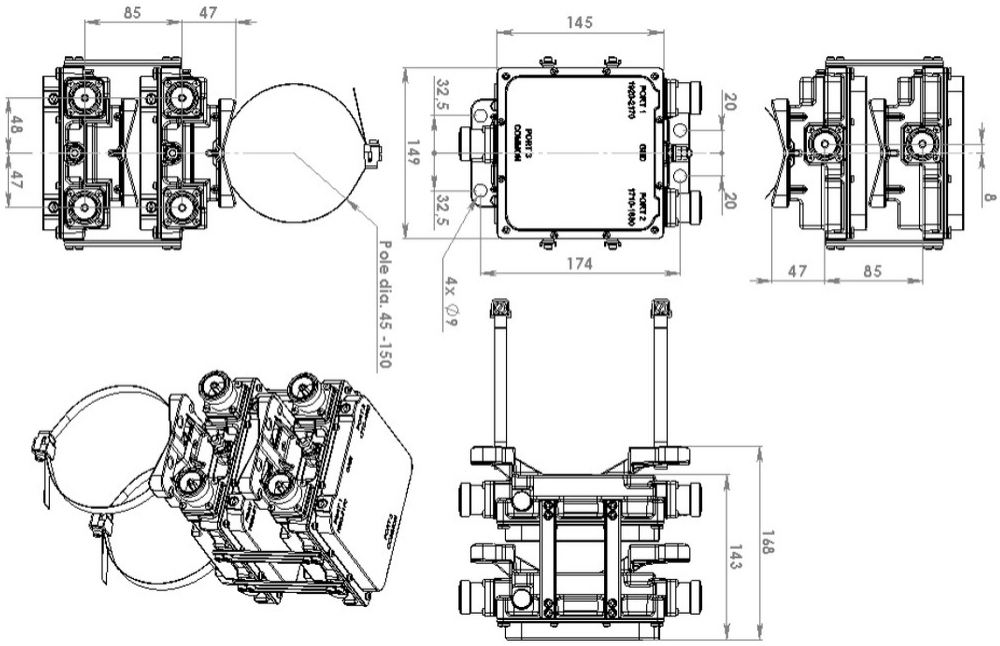
Product Family	CBC1821
Color	Gray
Common Port Label	PORT 3 COMMON
Modularity	2-Twin
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	149 mm | 5.866 in
Width	145 mm | 5.709 in
Depth	143 mm | 5.63 in
Mounting Pipe Diameter Range	40–160 mm

Outline Drawing

E11F03P14



Electrical Specifications

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

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through, combiner	dc Sensing
Lightning Surge Current	3 kA
Lightning Surge Current Waveform	10/350 waveform

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

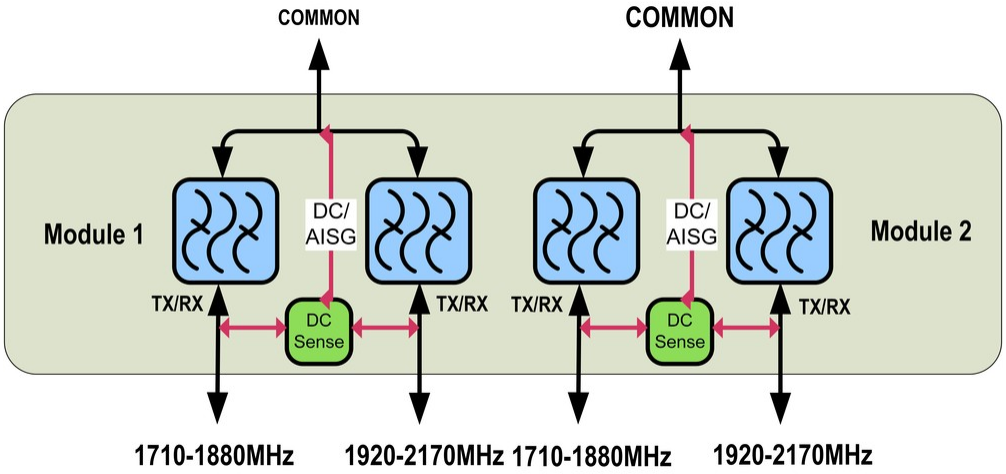
Electrical Specifications, Band Pass

Frequency Range, MHz	**1710–1880**	**1920–2170**
Insertion Loss, typical, dB	0.15	0.25

E11F03P14

Return Loss, minimum, dB	18	18
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	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram



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	3.8 kg | 8.378 lb

Regulatory Compliance/Certifications

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