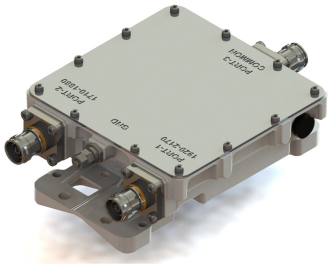
E12F05P97



Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass on DCS port, with 4.3-10 connectors

- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network Modernization, introduction of LTE1800 on existing site
- Designed for network Modernization, introduction of UMTS2100 on existing site
- Industry leading PIM performance
- dc/AISG pass-through on low frequency ports

OBSOLETE

This product was discontinued on: December 31, 2023

Replaced By:

E14F06P32	Ultra Compact Single Diplexer 1350-1880/1920-2690, 4.3-10 connectors

Product Classification

Product Type	Diplexer

General Specifications

Product Family	CBC1821
Color	Gray
Common Port Label	PORT 3 COMMON
Modularity	1-Single
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	42 mm | 1.654 in
Mounting Pipe Diameter Range	40–160 mm

Electrical Specifications

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

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combiner	Branch 1
dc/AISG Pass-through, demultiplexer	Branch 1
Lightning Surge Current	3 kA
Lightning Surge Current Waveform	10/350 waveform

Electrical Specifications

Sub-module	**1**	**1**
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, minimum, dB	18	18
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	250	250
3rd Order PIM, typical, dBc	-161	
3rd Order PIM Test Method	Two +43 dBm carriers	
7th Order PIM, typical, dBc		-168
7th Order PIM Test Method		Two +43 dBm carriers

Block Diagram

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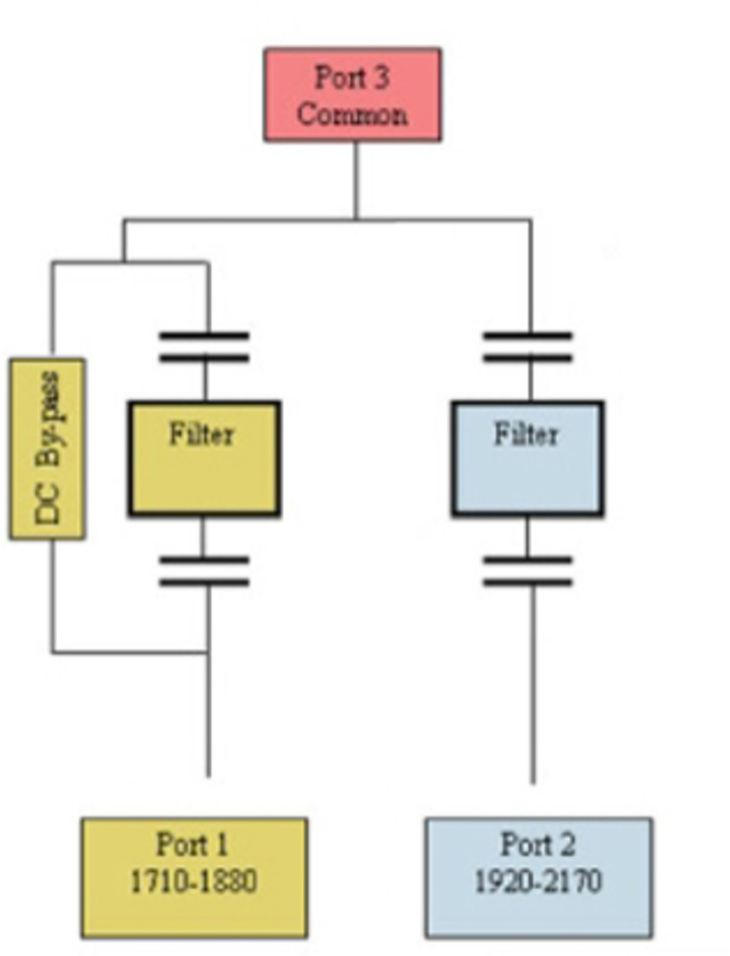

Environmental Specifications

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	0.9 L
Weight, net	2 kg | 4.409 lb

Regulatory Compliance/Certifications

Agency	**Classification**

E12F05P97

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