

E12F05P96	Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass on all ports with 4.3-10 connectors
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Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass on all ports with 4.3-10 connectors

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

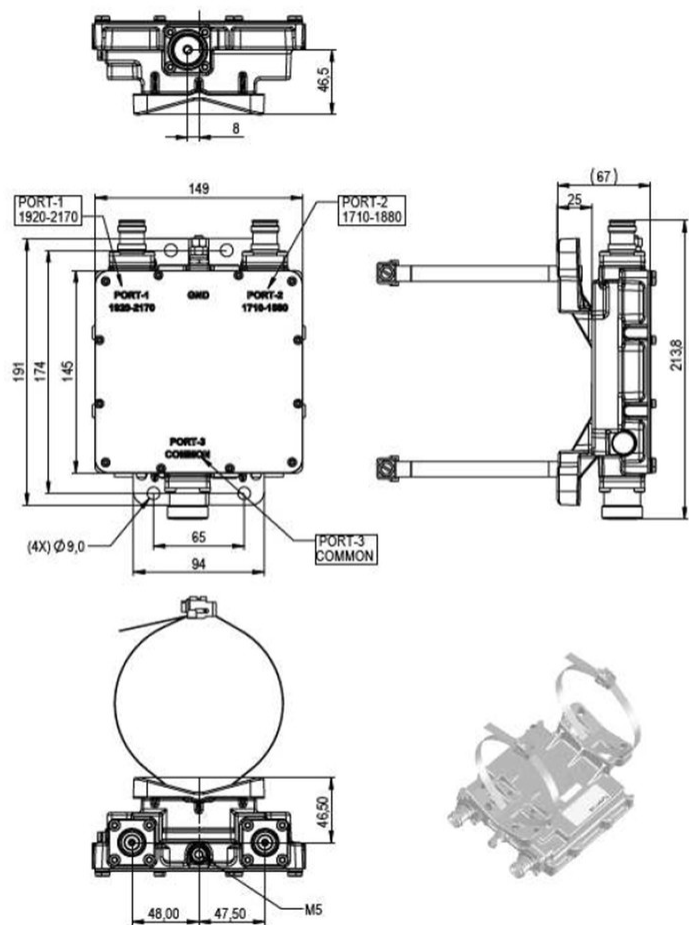
Height	149 mm 5.866 in
Width	214 mm 8.425 in
Depth	147 mm 5.787 in
RF Connector Length	25 mm 0.984 in
Ground Screw Diameter	5 mm 0.197 in

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Mounting Pipe Diameter Range

40–160 mm

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

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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	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications, AISG

AISG Pass-through Current, maximum	2 A
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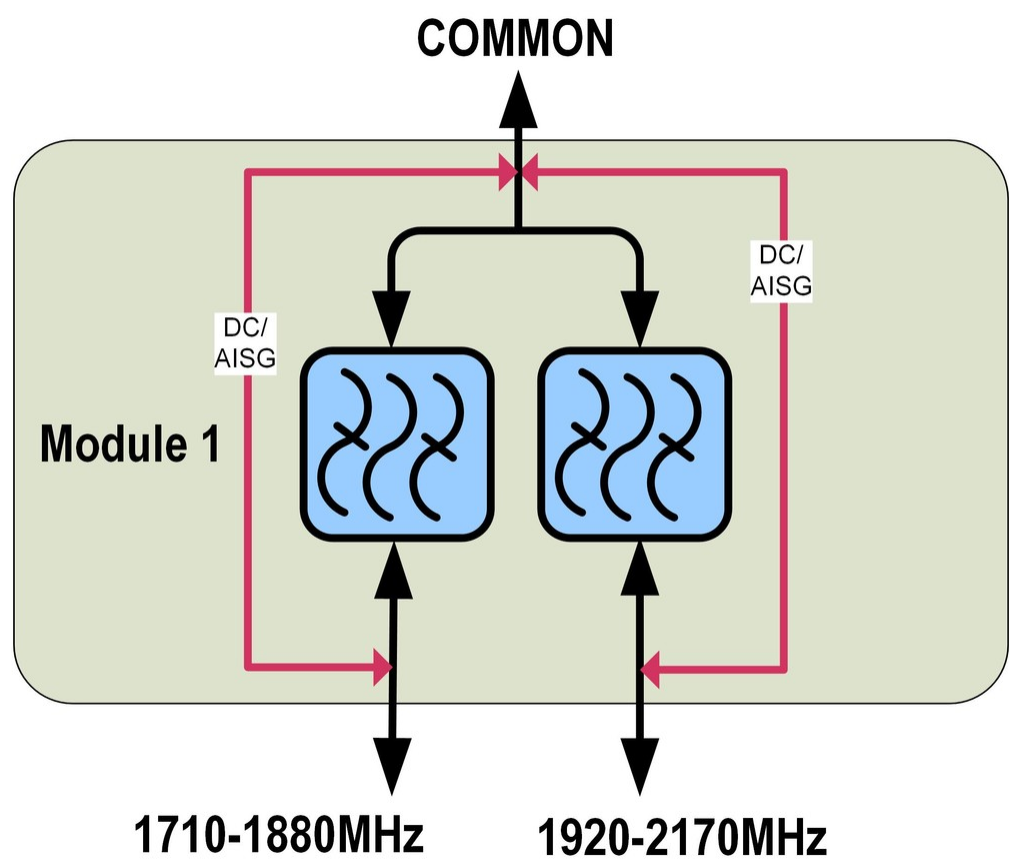
Electrical Specifications

Sub-module	1	1
Branch	1	2
Port Designation	PORT 1 1710-1880	PORT 2 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



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

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UV Resistance Test Method	IEC 60068-2-5
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Included	Mounting hardware
Volume	0.9 L
Weight, net	2 kg 4.409 lb
Weight, without mounting hardware	1.9 kg 4.189 lb

Regulatory Compliance/Certifications

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