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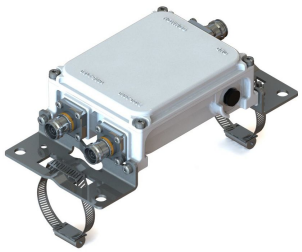

Diplexer, 1695-2200/2300-2700 MHz, dc bypass on 1695-2200 ports, with 4.3-10 connectors

- New 4.3-10 connectors for improved PIM performance and size reduction
- Industry leading PIM performance
- dc/AISG pass-through on low frequency ports
- Designed for network Modernization, introduction of LTE2600 on existing site

OBSOLETE

This product was discontinued on: December 31, 2023

Replaced By:

E12F02P46	Diplexer, 1695-2200/2300-2700 MHz, dc bypass all ports with 4.3-10 connectors

Product Classification

Product Type	Diplexer

General Specifications

Product Family	CBC1726
Color	Gray
Common Port Label	COMM
Modularity	1-Single
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Medium neck

Dimensions

Height	152.4 mm | 6 in
Width	123 mm | 4.843 in
Depth	59 mm | 2.323 in
Ground Screw Diameter	6 mm | 0.236 in
Mounting Pipe Diameter Range	42.6–122 mm

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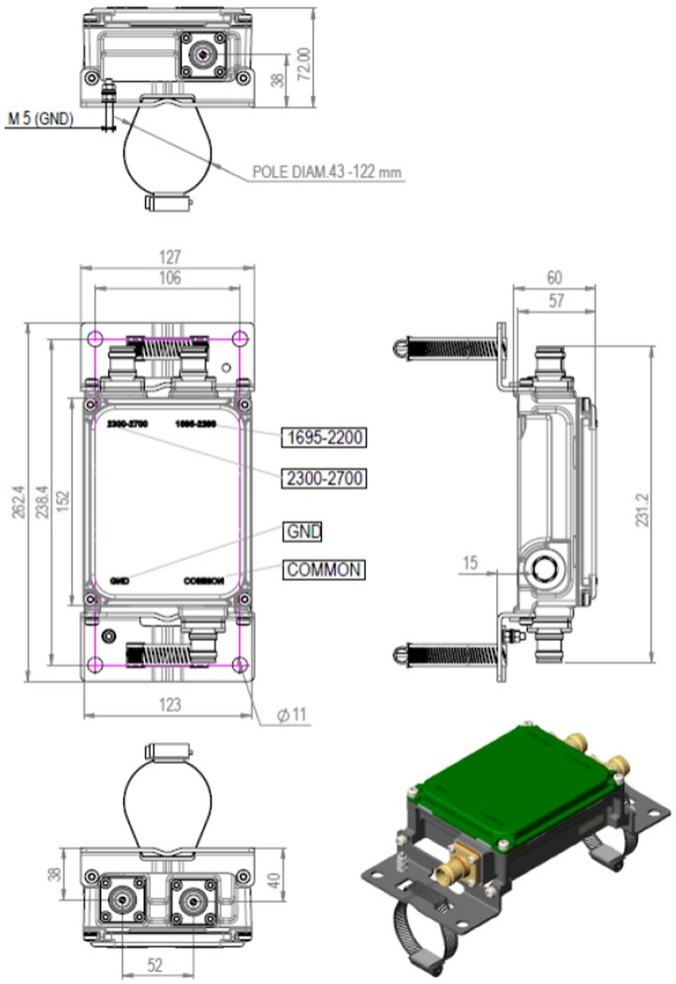
Outline Drawing



Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	AWS 1700 | DCS 1800 | IMT 2100 | IMT 2600 | PCS 1900 | WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1
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

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Electrical Specifications

Sub-module	**1**	**1**
Branch	1	2
Port Designation	1695-2200	2300-2700
License Band	AWS 1700, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass PCS 1900, Band Pass	IMT 2600, Band Pass WCS 2300, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	**1695–2200**	**2300–2700**
Insertion Loss, typical, dB	0.3	0.35
Total Group Delay, maximum, ns	30	30
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	300	300
Input Power, PEP, maximum, W	3500	3500
3rd Order PIM, typical, dBc	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram

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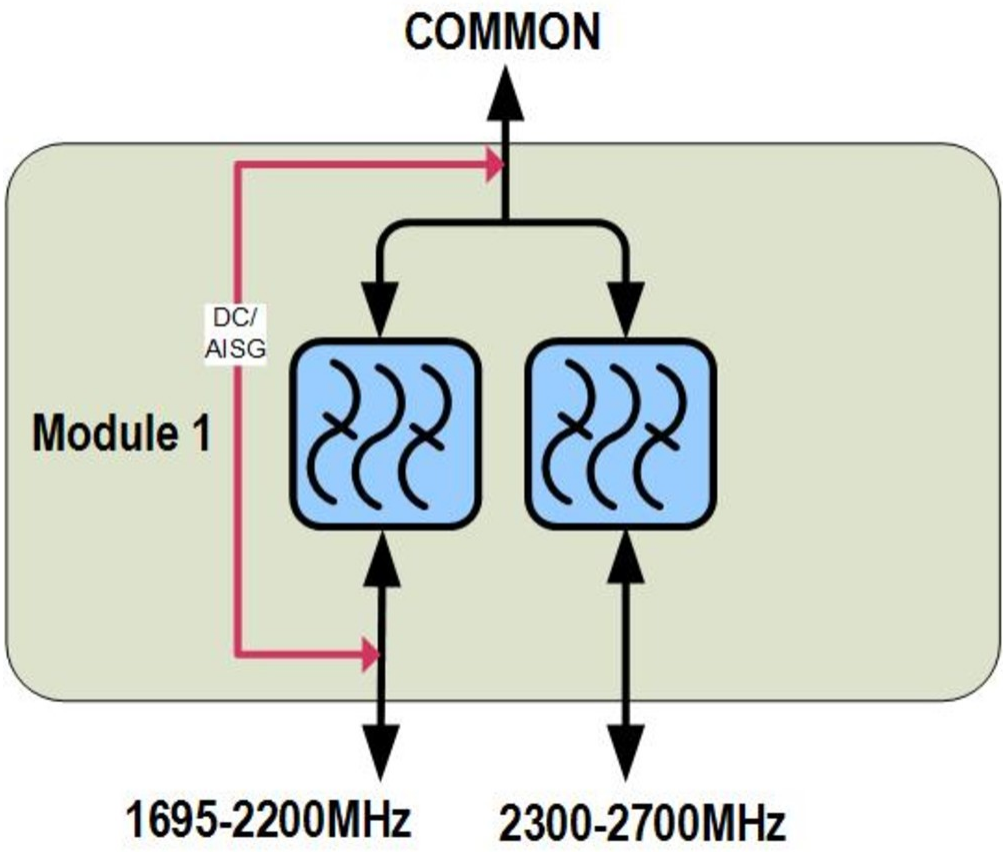

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	1.1 L
Weight, net	2.4 kg | 5.291 lb