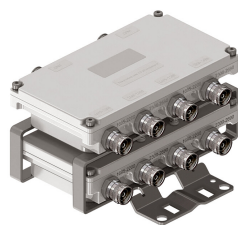


# E14F55P17



## Ultra Compact Quad Diplexer 1695-2200/2300-2690 MHz, 4.3-10 connectors

- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole and Concealment Solution
- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network modernization application, introduction of LTE 4x4 MIMO

### Product Classification

**Product Type** Diplexer

### General Specifications

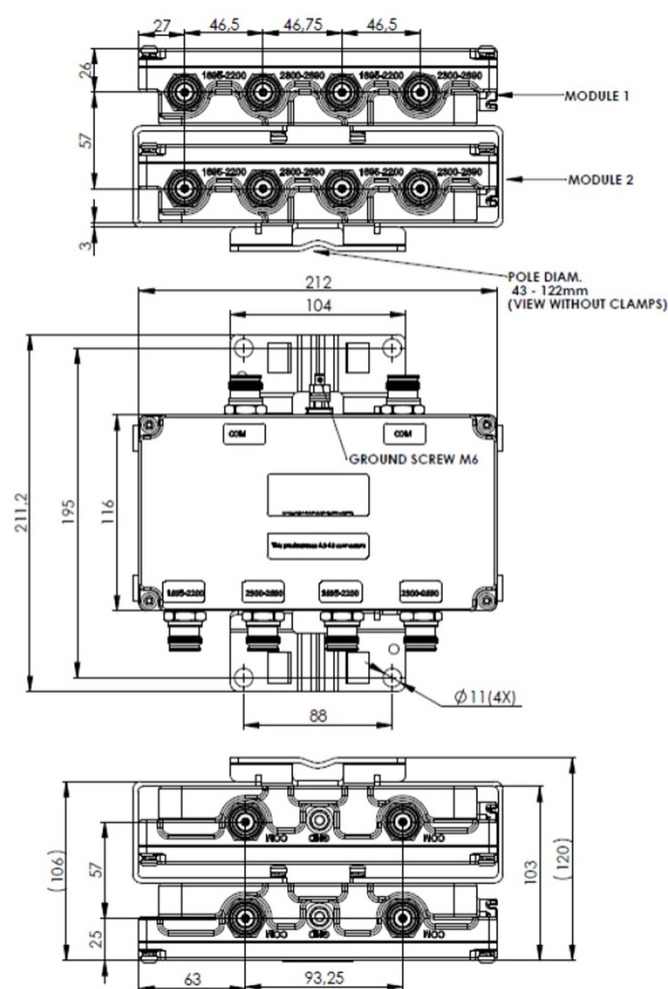
<b>Product Family</b>	CBC1726
<b>Color</b>	Gray
<b>Common Port Label</b>	Common
<b>Modularity</b>	4-Quad
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Interface Body Style</b>	Long neck

### Dimensions

<b>Height</b>	212 mm   8.346 in
<b>Width</b>	116 mm   4.567 in
<b>Depth</b>	103 mm   4.055 in

### Outline Drawing

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## Electrical Specifications

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

## Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	No dc/AISG pass-through
dc/AISG Pass-through, combiner	dc/AISG blocking on all ports
dc/AISG Pass-through, demultiplexer	dc/AISG blocking on all ports
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

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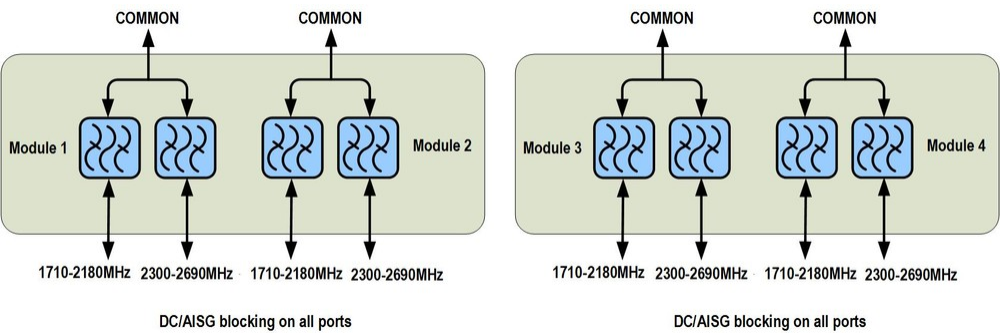
## Electrical Specifications

Sub-module	1   2	1   2
Branch	1	2
Port Designation	Port 1695-2200	Port 2300-2690
License Band	DCS 1800, Band Pass IMT 2100, Band Pass AWS 1700, Band Pass PCS 1900, Band Pass	TDD 2600, Band Pass IMT 2600, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	1695–2200	2300–2690
Insertion Loss, typical, dB	0.25	0.25
Total Group Delay, maximum, ns	12	12
Return Loss, typical, dB	23	23
Isolation, typical, dB	40	40
Input Power, RMS, maximum, W	100	100
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, typical, dBc	-161	-161
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

## Block Diagram



## Material Specifications

Finish	Painted
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## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days

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**Ingress Protection Test Method** IEC 60529:2001, IP67

## Packaging and Weights

**Mounting Hardware Weight** 0.2 kg | 0.441 lb

**Volume** 2.6 L

**Weight, without mounting hardware** 3.8 kg | 8.378 lb