

E14F55P19



Ultra Compact Quad Diplexer 1710-2180/2500-2690 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, Concealment Solution and Macro Site
- 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
- Quad configuration, 4x4 MIMO ready

Product Classification

Product Type Diplexer

General Specifications

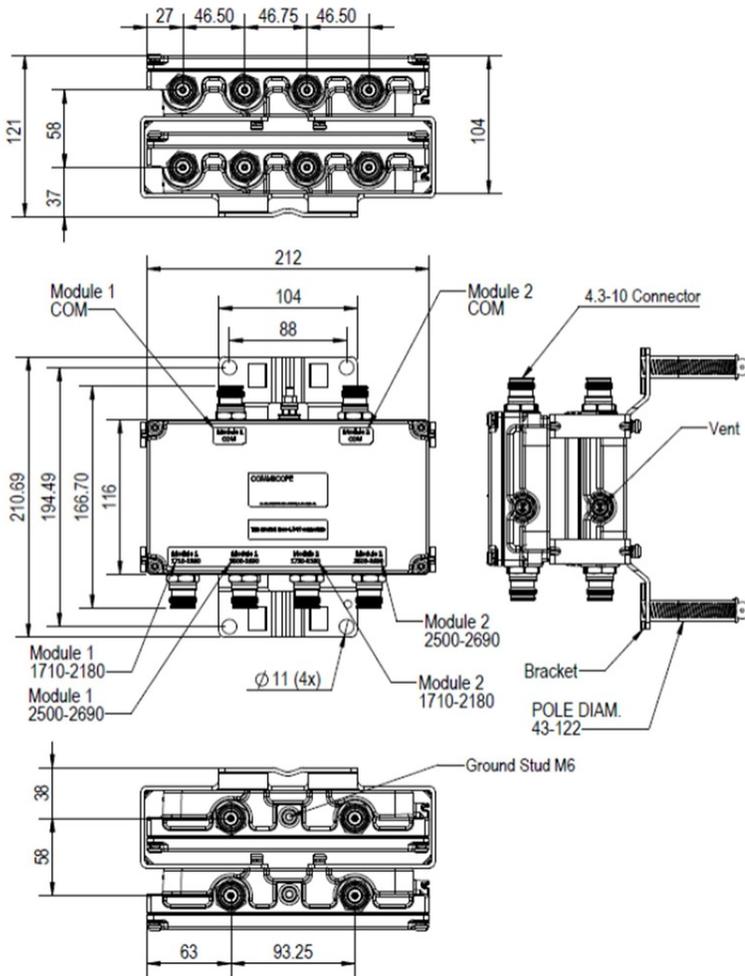
Product Family CBC1726
Color Gray
Common Port Label Common
Modularity 4-Quad
RF Connector Interface 4.3-10 Female
RF Connector Interface Body Style Long neck

Dimensions

Height 100 mm | 3.937 in
Width 116 mm | 4.567 in
Depth 212 mm | 8.346 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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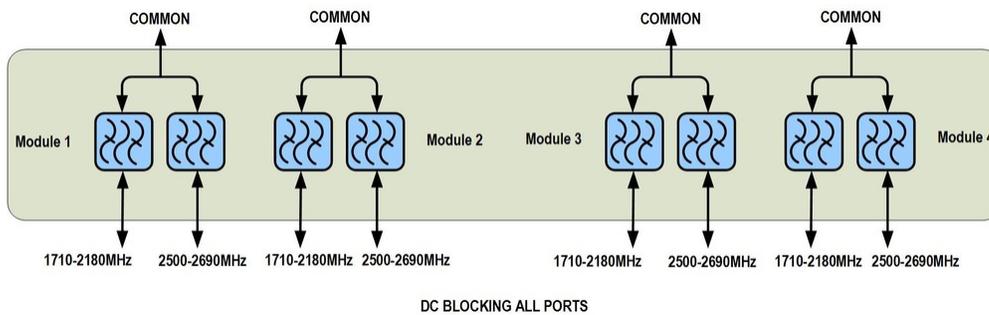
Electrical Specifications

| | | |
|-------------------------|--|--|
| Sub-module | 1 2 | 1 2 |
| Branch | 1 | 2 |
| Port Designation | Port 1710-2180 | Port 2500-2690 |
| 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 | 1710–2180 | 2500–2690 |
| Insertion Loss, typical, dB | 0.1 | 0.12 |
| Total Group Delay, maximum, ns | 12 | 12 |
| Return Loss, typical, dB | 23 | 23 |
| Isolation, typical, dB | 53 | 51 |
| Input Power, RMS, maximum, W | 250 | 250 |
| 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

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

Weight, net

4 kg | 8.818 lb