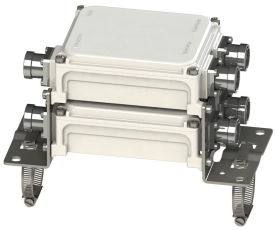
# E11F02P50



Twin Diplexer, 1695-2180/2300-2600 MHz, dc bypass on 2300-2600 ports

- Industry leading PIM performance
- Twin configuration

This product will be discontinued on: December 30, 2024

Replaced By:

| | |
|---|---|
| E14F06P48 | Twin Diplexer, 1350-2200 / 2300-2700 MHz, dc bypass all ports, 4.3-10 connectors |

## Product Classification

| | |
|---|---|
| **Product Type** | Diplexer |

## General Specifications

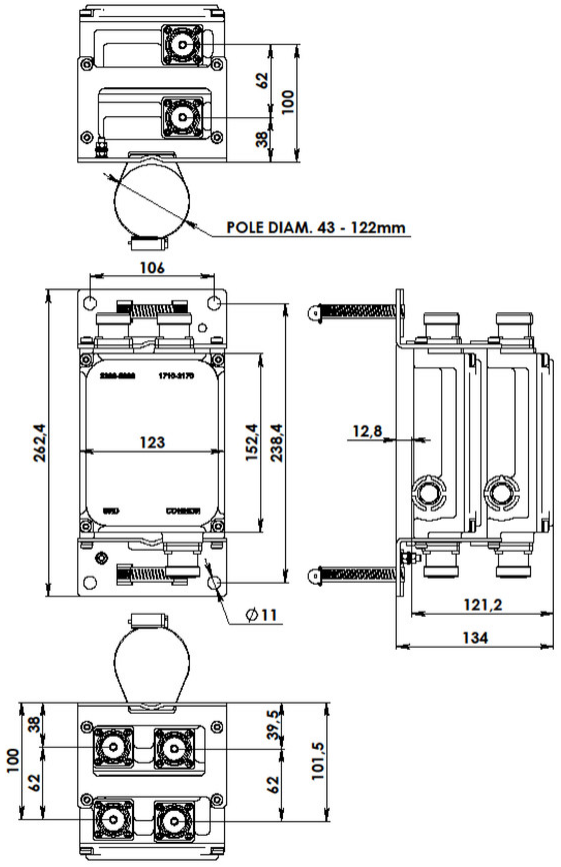
| | |
|---|---|
| **Product Family** | CBC1726 |
| **Color** | Gray |
| **Common Port Label** | COMM |
| **Modularity** | 2-Twin |
| **Mounting** | Pole \| Wall |
| **Mounting Pipe Hardware** | Band clamps (2) |
| **RF Connector Interface** | 7-16 DIN Female |
| **RF Connector Interface Body Style** | Long neck |

## Dimensions

| | |
|---|---|
| **Height** | 152.4 mm \| 6 in |
| **Width** | 123 mm \| 4.843 in |
| **Depth** | 119 mm \| 4.685 in |
| **RF Connector Length** | 35 mm \| 1.378 in |
| **Ground Screw Diameter** | 6 mm \| 0.236 in |
| **Mounting Pipe Diameter Range** | 42.6–122 mm |

## Outline Drawing

# E11F02P50




## 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, combiner** | Branch 2 |
| **dc/AISG Pass-through, demultiplexer** | Branch 2 |
| **Lightning Surge Current** | 3 kA |
| **Lightning Surge Current Waveform** | 10/350 waveform |

## Electrical Specifications

| | | |
|---|---|---|
| **Sub-module** | **1 \| 2** | **1 \| 2** |

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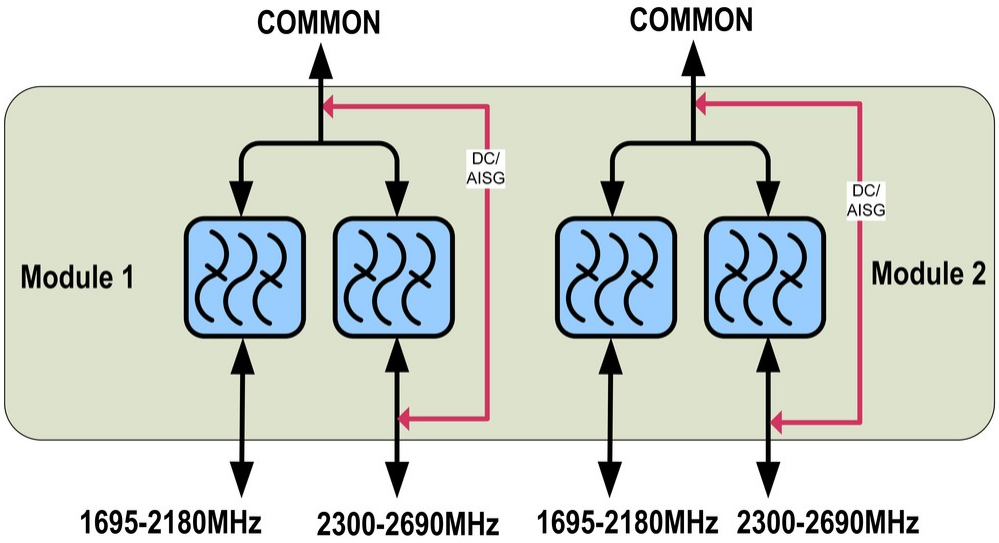
| | | |
|---|---|---|
| **Branch** | 1 | 2 |
| **Port Designation** | 1695-2180 | 2300-2690 |
| **License Band** | AWS 1700, Band Pass<br>DCS 1800, Band Pass<br>IMT 2100, Band Pass<br>PCS 1900, Band Pass | IMT 2600, Band Pass<br>WCS 2300, Band Pass |

## Electrical Specifications, Band Pass

| **Frequency Range, MHz** | **1695–2180** | **2300–2690** |
|---|---|---|
| **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, 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




## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | -40 °C to +60 °C (-40 °F to +140 °F) |
| **Relative Humidity** | Up to 100% |

# E11F02P50

| | |
|---|---|
| **Corrosion Test Method** | IEC 60068-2-11, 30 days |
| **Ingress Protection Test Method** | IEC 60529:2001, IP67 |

## Packaging and Weights

| | |
|---|---|
| **Included** | Mounting hardware |
| **Volume** | 2.3 L |
| **Weight, net** | 3.8 kg \| 8.378 lb |