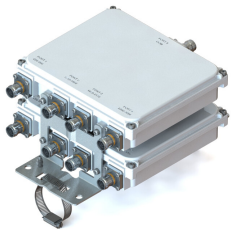
# E16V90P38



## Twin Quadplexer, dc bypass on port 2, with 4.3-10 connectors

- Industry leading PIM performance
- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction
- Suitable for feeders cables reduction

OBSOLETE

This product was discontinued on: December 30, 2024

Replaced By:

| | |
|---|---|
| E16V90P34 | Twin Quadplexer, dc bypass on all ports, with 4.3-10 connectors |

## Product Classification

| | |
|---|---|
| **Product Type** | Quadplexer |

## General Specifications

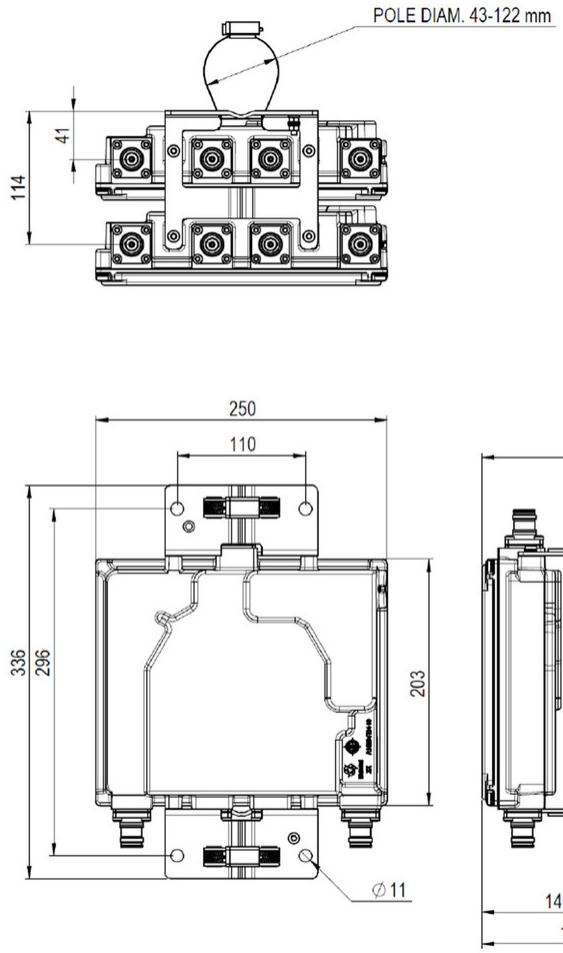
| | |
|---|---|
| **Product Family** | CBC7182126 |
| **Color** | Gray |
| **Modularity** | 2-Twin |
| **Mounting** | Pole \| Wall |
| **Mounting Pipe Hardware** | Band clamps (2) |
| **RF Connector Interface** | 4.3-10 Female |
| **RF Connector Interface Body Style** | Medium neck |

## Dimensions

| | |
|---|---|
| **Height** | 210 mm \| 8.268 in |
| **Width** | 250 mm \| 9.843 in |
| **Depth** | 141 mm \| 5.551 in |
| **Mounting Pipe Diameter Range** | 42.6–122 mm |

## Outline Drawing

# E16V90P38




## Electrical Specifications

| | |
|---|---|
| **Impedance** | 50 ohm |
| **License Band, Band Pass** | APT 700 \| CEL 850 \| CEL 900 \| DCS 1800 \| EDD 800 \| IMT 2100 \| IMT 2600 \| LMR 800 \| LMR 900 |

## Electrical Specifications, dc Power/Alarm

| | |
|---|---|
| **dc/AISG Pass-through, combiner** | Branch 2 |
| **dc/AISG Pass-through, demultiplexer** | Branch 2 |
| **Lightning Surge Current** | 5 kA |
| **Lightning Surge Current Waveform** | 8/20 waveform |

## Electrical Specifications, AISG

| | |
|---|---|
| **AISG Carrier** | 2176 KHz ± 100 ppm |

# E16V90P38

| | |
|---|---|
| **Insertion Loss, maximum** | 0.5 dB |
| **Return Loss, minimum** | 10 dB |

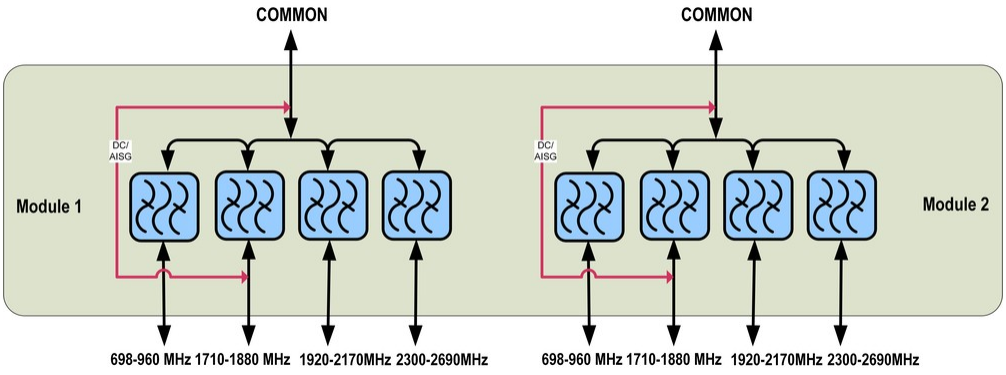
## Electrical Specifications

| **Sub-module** | **1 \| 2** | **1 \| 2** | **1 \| 2** | **1 \| 2** |
|---|---|---|---|---|
| **Branch** | 1 | 2 | 3 | 4 |
| **Port Designation** | PORT 1 698-960 | PORT 2 1710-1880 | PORT 3 1920-2170 | PORT 4 2300-2690 |
| **License Band** | APT 700, Band Pass<br>CEL 850, Band Pass<br>CEL 900, Band Pass<br>EDD 800, Band Pass<br>LMR 800, Band Pass<br>LMR 900, Band Pass | DCS 1800, Band Pass | IMT 2100, Band Pass | IMT 2600, Band Pass |

## Electrical Specifications, Band Pass

| **Frequency Range, MHz** | **698–960** | **1710–1880** | **1920–2170** | **2300–2690** |
|---|---|---|---|---|
| **Insertion Loss, typical, dB** | 0.1 | 0.2 | 0.2 | 0.15 |
| **Return Loss, minimum, dB** | 18 | 18 | 18 | 18 |
| **Return Loss, typical, dB** | 20 | 20 | 20 | 20 |
| **Isolation, minimum, dB** | 50 | 50 | 50 | 50 |
| **Input Power, RMS, maximum, W** | 300 | 300 | 300 | 200 |
| **3rd Order PIM, typical, dBc** | -160 | -160 | -160 | -160 |
| **3rd Order PIM Test Method** | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers |

## Block Diagram




## Mechanical Specifications

| | |
|---|---|
| **Wind Speed, maximum** | 216 km/h (134 mph) |

# E16V90P38

## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | -40 °C to +65 °C (-40 °F to +149 °F) |
| **Relative Humidity** | 15%–100% |
| **Corrosion Test Method** | IEC 60068-2-11, 30 days |
| **Ingress Protection Test Method** | IEC 60529:2001, IP67 |
| **Vibration Test Method** | IEC 60068-2-6 |

## Packaging and Weights

| | |
|---|---|
| **Included** | Mounting hardware |
| **Weight, net** | 10 kg \| 22.046 lb |