

# E16V90P37



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

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

### **OBSOLETE**

This product was discontinued on: December 30, 2024

#### Replaced By:

E14F15P13

Quadplexer 698-960/18/21/23-26, dc bypass on all ports, 4.3-10 connectors

## Product Classification

**Product Type** Quadplexer

## General Specifications

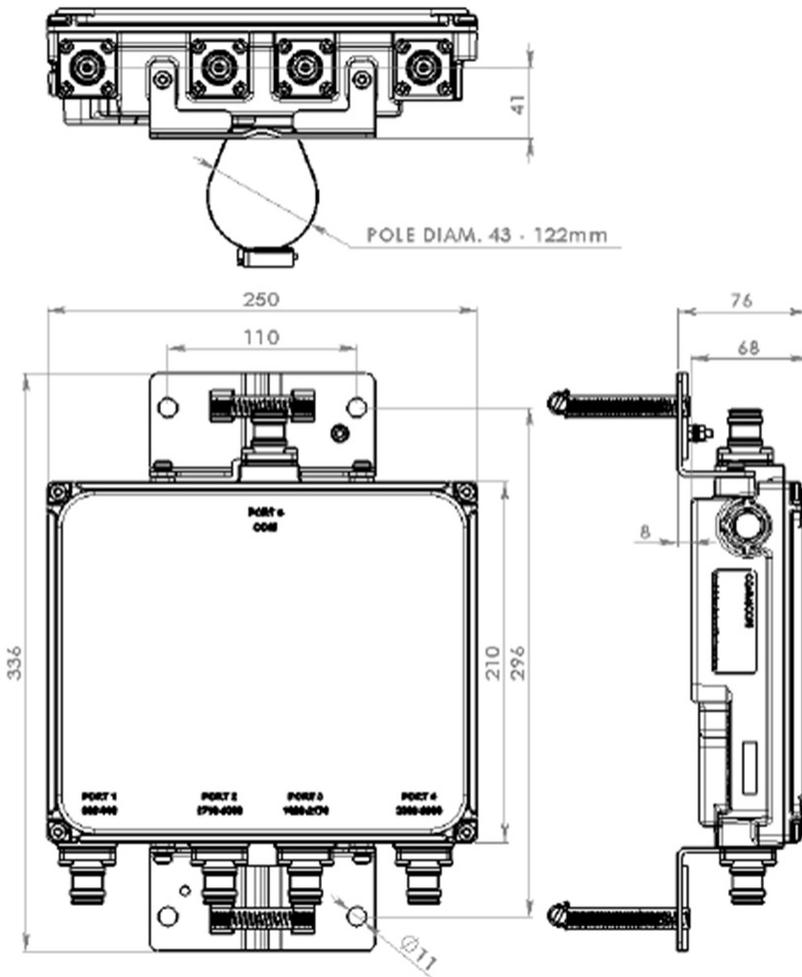
**Product Family** CBC7182126  
**Color** Gray  
**Modularity** 1-Single  
**Mounting** Pole | Wall  
**Mounting Pipe Hardware** Band clamps (2)  
**RF Connector Interface** 4.3-10 Female  
**RF Connector Interface Body Style** Medium neck

## Dimensions

**Height** 210 mm | 8.268 in  
**Width** 250 mm | 9.843 in  
**Depth** 68 mm | 2.677 in  
**Mounting Pipe Diameter Range** 42.6–122 mm

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## Outline Drawing



## 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

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## Electrical Specifications, AISG

<b>AISG Carrier</b>	2176 KHz ± 100 ppm
<b>Insertion Loss, maximum</b>	0.5 dB
<b>Return Loss, minimum</b>	10 dB

## Electrical Specifications

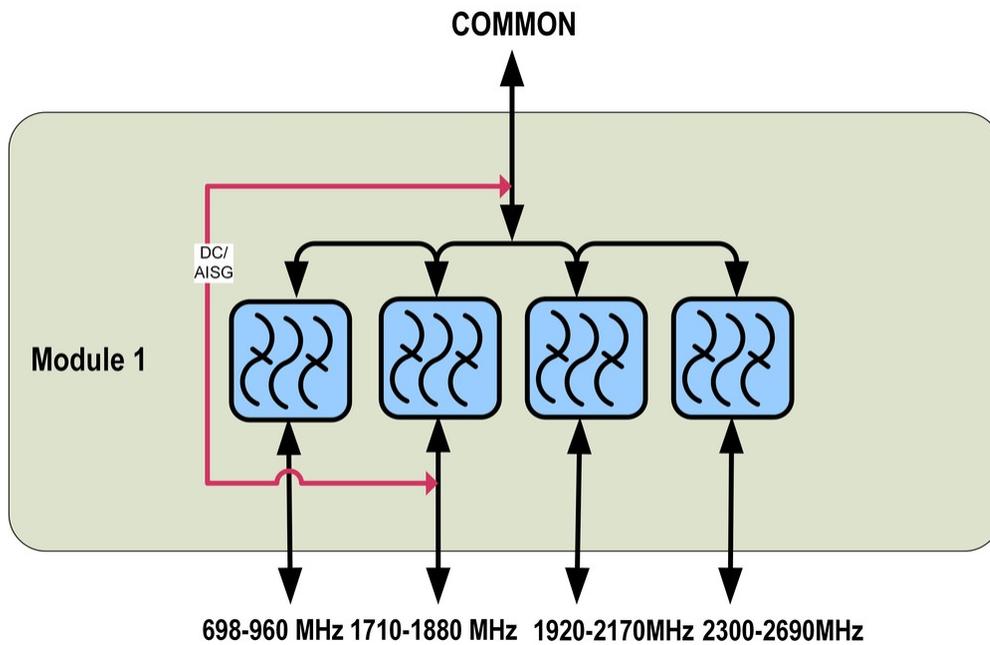
<b>Sub-module</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Branch</b>	1	2	3	4
<b>Port Designation</b>	PORT 1 698-960	PORT 2 1710-1880	PORT 3 1920-2170	PORT 4 2300-2690
<b>License Band</b>	APT 700, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass LMR 800, Band Pass LMR 900, Band Pass	DCS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

## Electrical Specifications, Band Pass

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

## Block Diagram

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## Mechanical Specifications

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

## 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** 5 kg | 11.023 lb