

# E14F20P06



Ultra Compact Single Pentaplexer 700-900/1400-1800/2100/2300-2600/3400-3800, dc bypass on all ports, with 4.3-10 connectors

- New Combining Solution to introduce 5G, 3.5GHz band
- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Suitable for feeders cables reduction
- dc/AISG pass-through on all frequency ports
- Single configuration

## Product Classification

**Product Type** Pentaplexer

## General Specifications

**Product Family** CBC7182126

**Color** Gray

**Common Port Label** PORT 0 COM

**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** 45 mm | 1.772 in

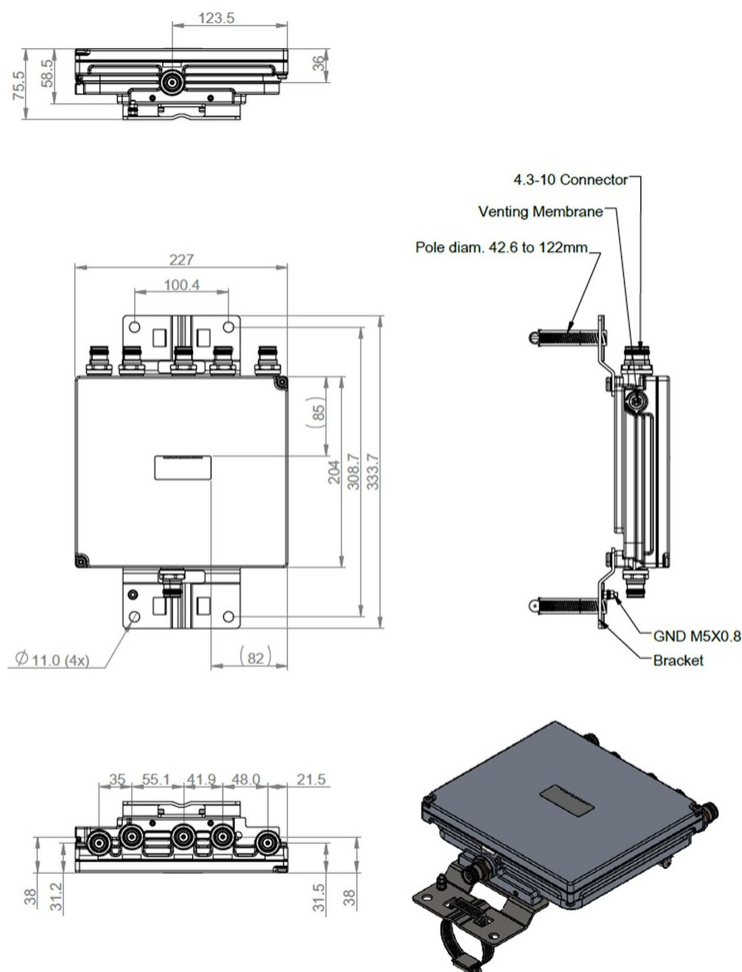
**Width** 230 mm | 9.055 in

**Depth** 200 mm | 7.874 in

**Mounting Pipe Diameter Range** 42.6–122 mm

## Outline Drawing

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## Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700   AWS 2000   CEL 850   CEL 900   DCS 1800   EDD 800   IMT 2100   IMT 2600   LMR 800   LMR 900   PCS 1900   SDL 1400   TDD 3500

## Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1   Branch 2   Branch 3   Branch 4   Branch 5
dc/AISG Pass-through, combiner	Branch 1   Branch 2   Branch 3   Branch 4
dc/AISG Pass-through, demultiplexer	Branch 1   Branch 2   Branch 3   Branch 4   Branch 5
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>	18 dB

## Electrical Specifications

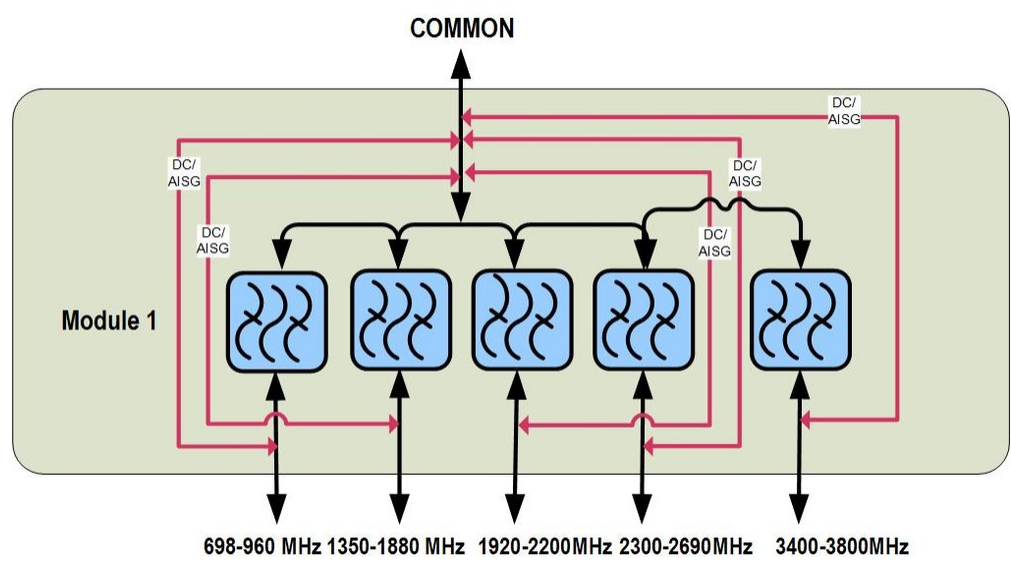
<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>	<b>1   2</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	2	3	4	5
<b>Port Designation</b>	PORT 1 698-960	PORT 2 1350-1880	PORT 3 1920-2200	PORT 4 2300-2690	PORT 5 3400-3800
<b>License Band</b>	CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass LMR 800, Band Pass LMR 900, Band Pass	SDL 1400, Band Pass DCS 1800, Band Pass	IMT 2100, Band Pass AWS 2000, Band Pass PCS 1900, Band Pass	IMT 2600, Band Pass TDD 2600, Band Pass	TDD 3500, Band Pass

## Electrical Specifications, Band Pass

<b>Frequency Range, MHz</b>	<b>698–960</b>	<b>1350–1525 1710–1880</b>	<b>1920–2200</b>	<b>2300–2690</b>	<b>3400–3800</b>
<b>Insertion Loss, maximum, dB</b>	0.4	0.5	0.5	0.4	0.3
<b>Return Loss, minimum, dB</b>	18	18	18	18	18
<b>Isolation, minimum, dB</b>	50	50	50	50	50
<b>Input Power, RMS, maximum, W</b>	100	100	100	100	100
<b>Input Power, PEP, maximum, W</b>	1000	1000	1000	1000	1000
<b>3rd Order PIM, maximum, dBc</b>	-161	-161	-161	-161	-161
<b>3rd Order PIM Test Method</b>	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

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## Mechanical Specifications

**Wind Speed, maximum** 241 km/h (150 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  
**Volume** 2.3 L  
**Weight, net** 2.8 kg | 6.173 lb