

# E14F20P09

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Twin Pentaplexer 617-960/1350-2200/2300-2400/2496-2700/3300-4200, dc bypass on low 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 low frequency ports
- Clam shell configuration

## Product Classification

**Product Type** Pentaplexer

## General Specifications

**Color** Gray

**Modularity** 2-Twin

**Mounting** Pole | Wall

**Mounting Pipe Hardware** Band clamps (2)

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 87 mm | 3.425 in

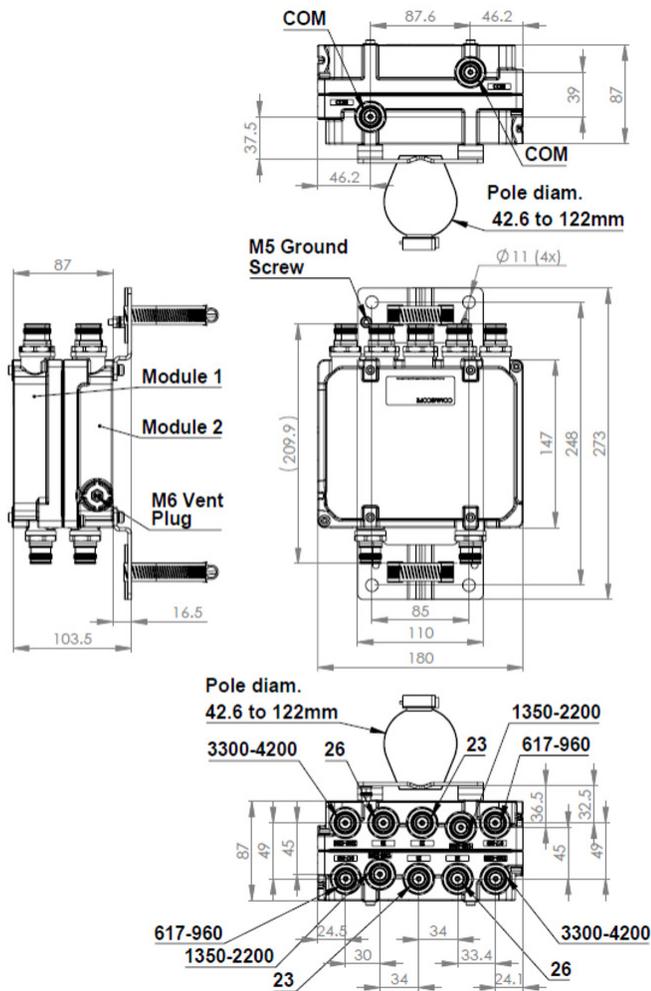
**Width** 180 mm | 7.087 in

**Depth** 157 mm | 6.181 in

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

## Outline Drawing

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## Electrical Specifications

**Impedance** 50 ohm

## Electrical Specifications, dc Power/Alarm

**dc/AISG Pass-through, combiner** Branch 1

**dc/AISG Pass-through, demultiplexer** Branch 1

**Lightning Surge Current** 5 kA

**Lightning Surge Current Waveform** 8/20 waveform

## Electrical Specifications

<b>Sub-module</b>	1   2	1   2	1   2	1   2	1   2
<b>Branch</b>	1	2	3	4	5

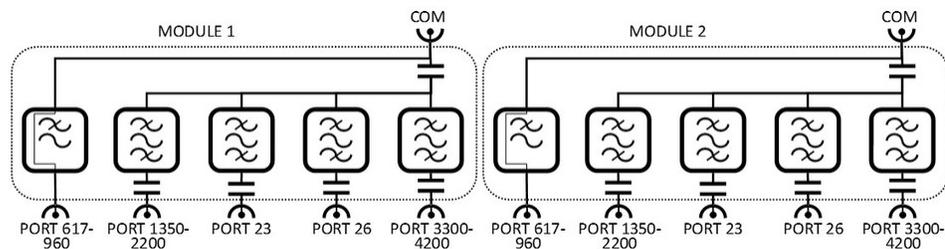
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**Port Designation**                      PORT 1 617-960    PORT 2 1350-2200    PORT 3 2300-2400    PORT 4 2496-2700    PORT 5 3300-4200

## Electrical Specifications, Band Pass

Frequency Range, MHz	617–960	1350–2200	2300–2400	2496–2700	3300–4200
Insertion Loss, typical, dB	0.15	0.2	0.3	0.3	0.2
Return Loss, typical, dB	20	20	20	20	20
Isolation, typical, dB	35	35	35	45	55
Input Power, RMS, maximum, W	125	125	125	125	125
Input Power, PEP, maximum, W	1250	1250	1250	1250	1250
3rd Order PIM, typical, dBc	-163	-163	-163	-163	-163
3rd Order PIM Test Method	Two +43 dBm carriers				

## Block Diagram



## Mechanical Specifications

**Wind Speed, maximum**                      240 km/h (149 mph)

## Environmental Specifications

**Operating Temperature**                      -40 °C to +65 °C (-40 °F to +149 °F)

**Corrosion Test Method**                      IEC 60068-2-11, 30 days

**Environmental Test Method**                      ETSI EN 300 019-1-4

**Ingress Protection Test Method**                      IEC 60529:2001, IP67

## Packaging and Weights

**Included**                      Mounting hardware

**Volume**                      2.5 L

**Weight, net**                      4.7 kg | 10.362 lb

**Weight, without mounting hardware**                      4.3 kg | 9.48 lb

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