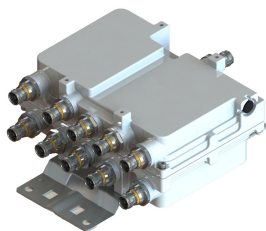


# E14F20P04



Twin Pentaplexer 703-803/880-960/1710-1880/1920-2170/2500-2690, dc bypass on all ports, with 4.3-10 connectors

- Designed for network Modernization, introduction of LTE2600 on existing site
- 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
- 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** 119 mm | 4.685 in

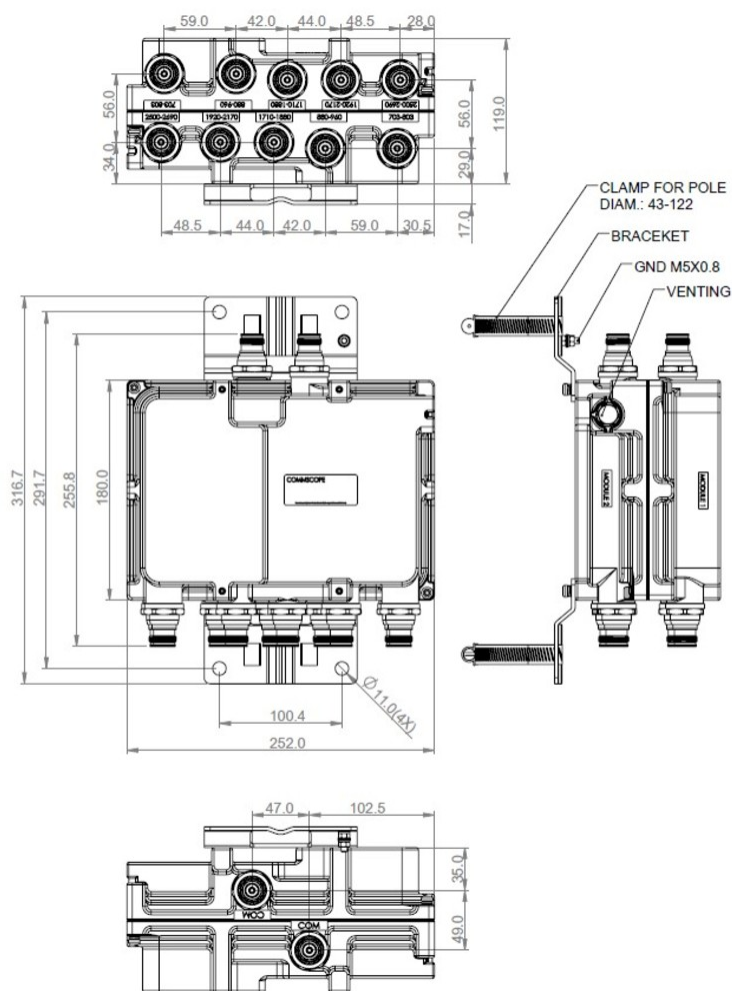
**Width** 252 mm | 9.921 in

**Depth** 180 mm | 7.087 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

|  |  |
|--|--|
| <b>dc/AISG Pass-through Method</b>         | Factory set  |
| <b>dc/AISG Pass-through Path</b>           | Branch 1   Branch 2   Branch 3   Branch 4   Branch 5 |
| <b>dc/AISG Pass-through, combiner</b>      | Branch 1   Branch 2   Branch 3   Branch 4   Branch 5 |
| <b>dc/AISG Pass-through, demultiplexer</b> | Branch 1   Branch 2   Branch 3   Branch 4   Branch 5 |
| <b>Lightning Surge Current</b>             | 5 kA   |
| <b>Lightning Surge Current Waveform</b>    | 8/20 waveform  |

## Electrical Specifications, AISG

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|                                |                    |
|--------------------------------|--------------------|
| <b>AISG Carrier</b>            | 2176 KHz ± 100 ppm |
| <b>Insertion Loss, maximum</b> | 0.5 dB             |
| <b>Return Loss, minimum</b>    | 15 dB              |

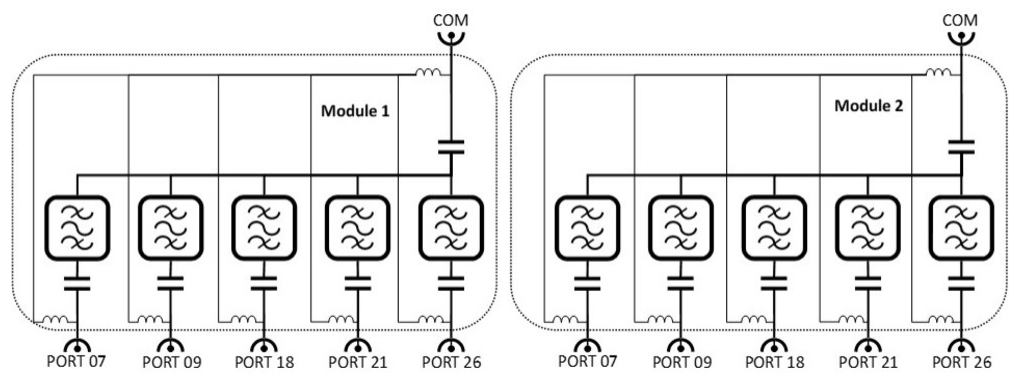
## Electrical Specifications

|                         |                |                |                  |                  |                  |
|-------------------------|----------------|----------------|------------------|------------------|------------------|
| <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 1 703-803 | PORT 2 880-960 | PORT 3 1710-1880 | PORT 4 1920-2170 | PORT 5 2500-2690 |

## Electrical Specifications, Band Pass

|                                     |                      |                      |                      |                      |                      |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Frequency Range, MHz</b>         | <b>703–803</b>       | <b>880–960</b>       | <b>1710–1880</b>     | <b>1920–2170</b>     | <b>2500–2690</b>     |
| <b>Insertion Loss, typical, dB</b>  | 0.15                 | 0.15                 | 0.25                 | 0.25                 | 0.15                 |
| <b>Return Loss, typical, dB</b>     | 20                   | 20                   | 20                   | 20                   | 20                   |
| <b>Isolation, typical, dB</b>       | 55                   | 55                   | 55                   | 55                   | 55                   |
| <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, typical, dBc</b>  | -155                 | -155                 | -155                 | -155                 | -155                 |
| <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



## Environmental Specifications

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Operating Temperature</b>     | -40 °C to +65 °C (-40 °F to +149 °F) |
| <b>Corrosion Test Method</b>     | IEC 60068-2-11, 30 days              |
| <b>Environmental Test Method</b> | ETSI EN 300 019-1-4                  |

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|                                       |                      |
|---------------------------------------|----------------------|
| <b>Ingress Protection Test Method</b> | IEC 60529:2001, IP67 |
| <b>Vibration Test Method</b>          | IEC 60068-2-6        |

## Packaging and Weights

|  |                    |
|--|--------------------|
| <b>Included</b>                          | Mounting hardware  |
| <b>Volume</b>                            | 5.4 L              |
| <b>Weight, with mounting hardware</b>    | 7.4 kg   16.314 lb |
| <b>Weight, without mounting hardware</b> | 6.9 kg   15.212 lb |