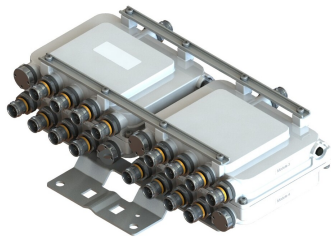


# E14F15P44



Quad Quadplexer 617-960/1350-2200/2300-2400/2496-2700 MHz,  
4.3-10 connectors,dc bypass on all ports

- Industry leading PIM performance
- Designed for network modernization application, introduction of LTE2300 and LTE2600 on existing site
- New 4.3-10 connectors for improved PIM performance and size reduction
- Suitable for feeders cables reduction

## Product Classification

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

## General Specifications

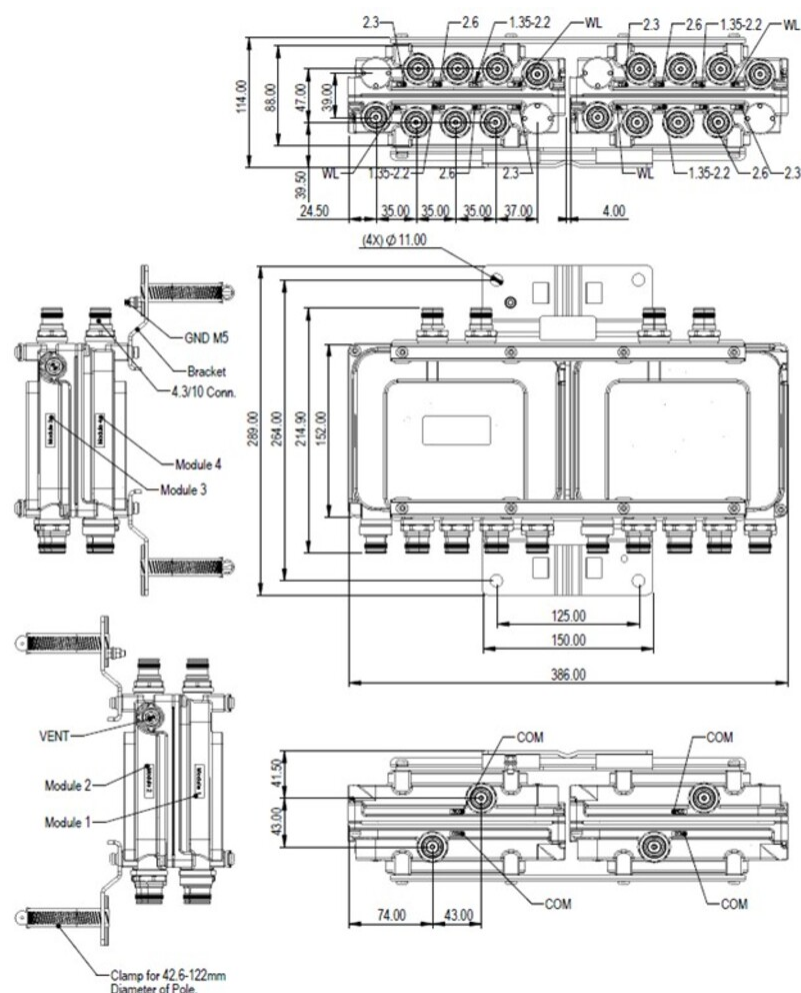
|                        |                 |
|------------------------|-----------------|
| Color                  | Gray            |
| Modularity             | 4-Quad          |
| Mounting               | Pole   Wall     |
| Mounting Pipe Hardware | Band clamps (2) |
| RF Connector Interface | 4.3-10 Female   |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Height                       | 88 mm   3.465 in   |
| Width                        | 386 mm   15.197 in |
| Depth                        | 152 mm   5.984 in  |
| Mounting Pipe Diameter Range | 43–122 mm          |

## Outline Drawing

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## Electrical Specifications

|                                |  |
|--------------------------------|--|
| <b>Impedance</b>               | 50 ohm   |
| <b>License Band, Band Pass</b> | APT 700   CEL 850   CEL 900   DCS 1800   EDD 800   IMT 2100   IMT 2600   LMR 800   LMR 900   SDL 1400   TDD 2300   USA 600 |

## Electrical Specifications, dc Power/Alarm

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

## Electrical Specifications, AISG

|                     |                    |
|---------------------|--------------------|
| <b>AISG Carrier</b> | 2176 KHz ± 100 ppm |
|---------------------|--------------------|

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|                         |        |
|-------------------------|--------|
| Insertion Loss, maximum | 0.1 dB |
| Return Loss, minimum    | 18 dB  |

## Electrical Specifications

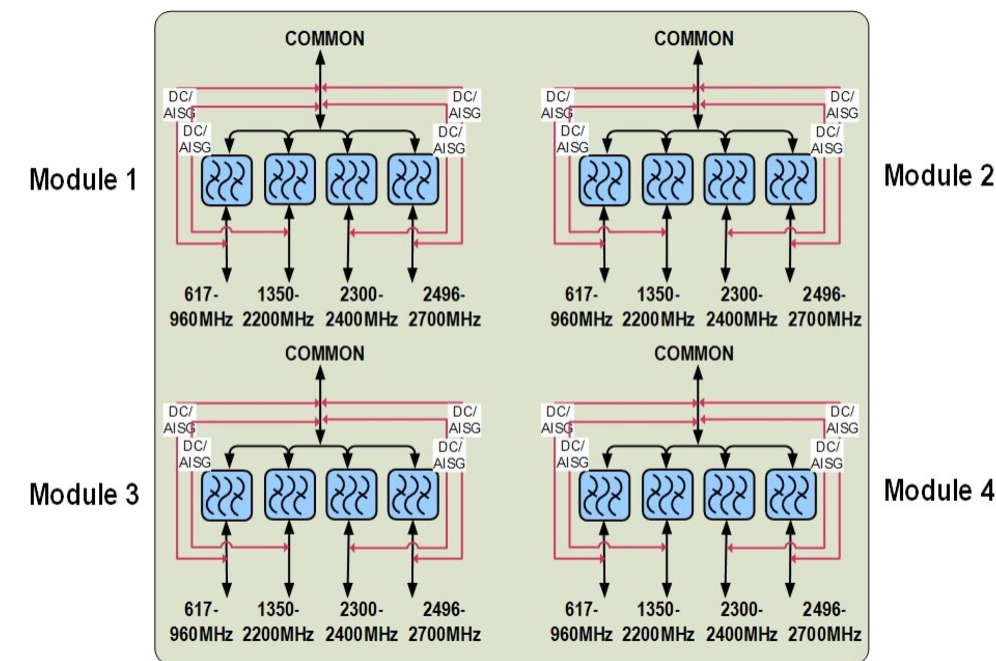
|                  |  |  |                     |  |
|------------------|--|--|---------------------|--|
| Sub-module       | 1   2  | 1   2  | 1   2               | 1   2                                      |
| Branch           | 1  | 2  | 3                   | 4  |
| Port Designation | PORT 1 617-960   | PORT 2 1350-2200   | PORT 3 2300-2400    | PORT 4 2496-2700                           |
| License Band     | APT 700, Band Pass<br>LMR 750, Band Pass<br>LMR 800, Band Pass<br>LMR 900, Band Pass<br>USA 600, Band Pass<br>CEL 850, Band Pass<br>CEL 900, Band Pass<br>EDD 800, Band Pass | LMR 900, Band Pass<br>PDC 1500, Band Pass<br>SDL 1400, Band Pass<br>DCS 1800, Band Pass<br>IMT 2100, Band Pass | TDD 2300, Band Pass | TDD 2600, Band Pass<br>IMT 2600, Band Pass |

## Electrical Specifications, Band Pass

|                              |                      |                      |                      |                      |
|------------------------------|----------------------|----------------------|----------------------|----------------------|
| Frequency Range, MHz         | 617–960              | 1350–2200            | 2300–2400            | 2496–2700            |
| Insertion Loss, typical, dB  | 0.15                 | 0.1                  | 0.2                  | 0.15                 |
| Return Loss, typical, dB     | 20                   | 20                   | 20                   | 20                   |
| Isolation, typical, dB       | 38                   | 38                   | 38                   | 38                   |
| Input Power, RMS, maximum, W | 125                  | 125                  | 125                  | 125                  |
| Input Power, PEP, maximum, W | 1250                 | 1250                 | 1250                 | 1250                 |
| 3rd Order PIM, typical, dBc  | -155                 | -155                 | -155                 | -155                 |
| 3rd Order PIM Test Method    | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers |

## Block Diagram

# E14F15P44



## Mechanical Specifications

**Wind Speed, maximum** 200 km/h (124 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

**Vibration Test Method** IEC 60068-2-6

## Packaging and Weights

**Included** Mounting hardware

**Volume** 5.2 L

**Weight, with mounting hardware** 8.45 kg | 18.629 lb

**Weight, without mounting hardware** 7.5 kg | 16.535 lb