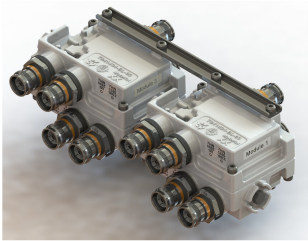


# E14F06P08



## Ultra Compact Quad Diplexer 80-2690MHz/3300-5925MHz, 4.3-10

- New Combining Solution to introduce 5G, 3.5GHz band
- Industry leading PIM performance
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- Compact form factor with reduced size and weight
- Ideal for small cell applications
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on low frequency ports
- Quad configuration, 4x4 MIMO ready

## Product Classification

**Product Type** Diplexer

## General Specifications

**Modularity** 4-Quad

**Mounting** Pole | Wall

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 71 mm | 2.795 in

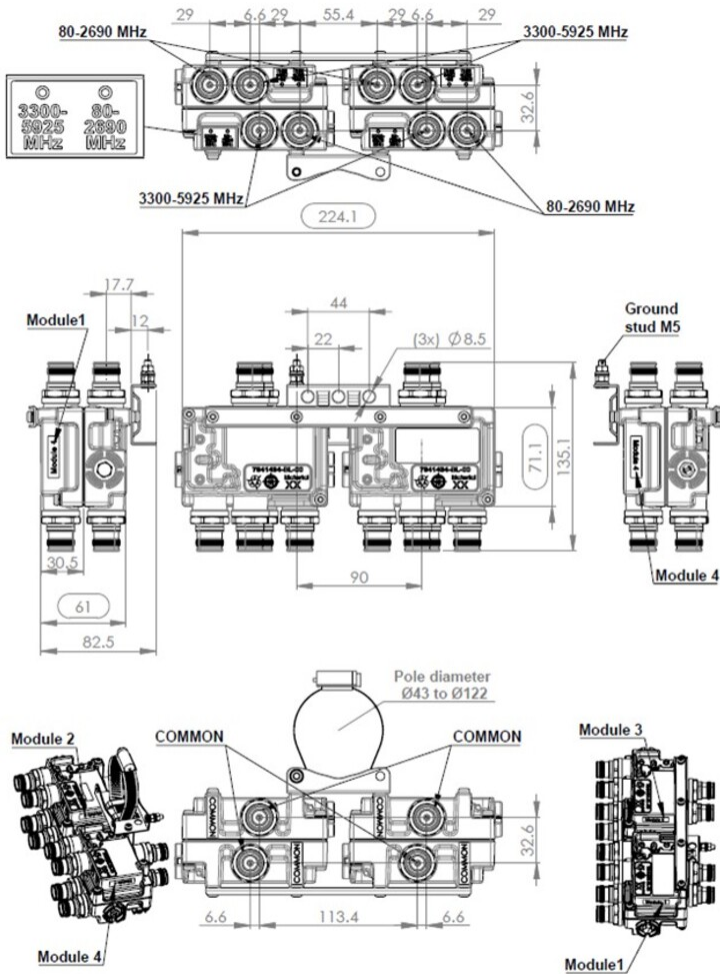
**Width** 224 mm | 8.819 in

**Depth** 61 mm | 2.402 in

**Ground Screw Diameter** 5 mm | 0.197 in

## Dimension Drawing

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## Electrical Specifications

### License Band, Band Pass

APT 700 | AWS 1700 | AWS 2000 | CEL 850 | CEL 900 | DCS 1800 | IMT 2100 | IMT 2600 | LAA 5000 | LMR 750 | LMR 800 | NMT 450 | PCS 1900 | SDL 1400 | TDD 2300 | TDD 2600 | TDD 3500 | TDD 5000 | USA 600 | USA 700 | USA 750 | WCS 2300

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through Method</b>	Factory set
<b>dc/AISG Pass-through Path</b>	Branch 1
<b>dc/AISG Pass-through, combiner</b>	Branch 1
<b>dc/AISG Pass-through, demultiplexer</b>	Branch 1
<b>Voltage</b>	7-30 Vdc

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## Electrical Specifications, AISG

**AISG Carrier** 2.176 MHz ± 100 ppm

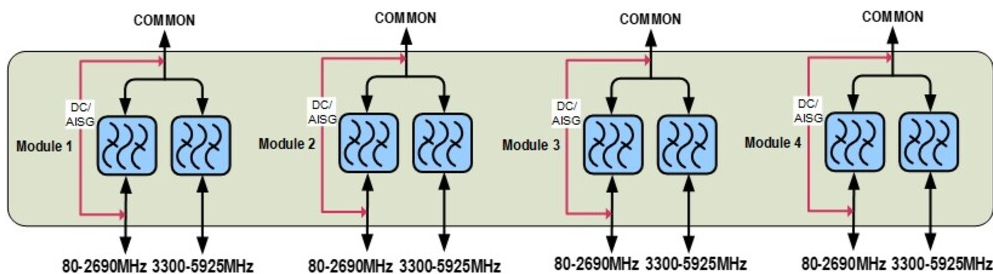
## Electrical Specifications

Sub-module	1   2	1   2
<b>Branch</b>	1	2
<b>Port Designation</b>	80-2690	3300-5925
<b>License Band</b>	APT 700, Band Pass EDD 800, Band Pass CEL 850, Band Pass CEL 900, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass TDD 2300, Band Pass TDD 2600, Band Pass IMT 2600, Band Pass	LAA 5000, Band Pass TDD 3500, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	80-2690	3300-5925
<b>Insertion Loss, typical, dB</b>	0.2	0.2
<b>Return Loss, typical, dB</b>	20	20
<b>Isolation, minimum, dB</b>	50	50
<b>Input Power, RMS, maximum, W</b>	100	100
<b>Input Power, PEP, maximum, W</b>	1000	1000
<b>3rd Order PIM, typical, dBc</b>	-161	-161
<b>3rd Order PIM Test Method</b>	2 x 20 W CW tones	2 x 20 W CW tones

## Block Diagram



## Mechanical Specifications

**Wind Loading @ Velocity, frontal** 10.0 N @ 150 km/h (2.2 lbf @ 150 km/h)  
**Wind Loading @ Velocity, lateral** 4.0 N @ 150 km/h (0.9 lbf @ 150 km/h)

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## 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>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

<b>Volume</b>	1 L
<b>Weight, with mounting hardware</b>	2.45 kg   5.401 lb
<b>Weight, without mounting hardware</b>	2.3 kg   5.071 lb