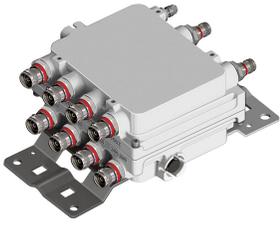


# E12F03P47

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## Quad Diplexer 2300-2400/2496-2690 MHz, 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole and Concealment Solution
- Designed for network modernization application, introduction of LTE 4x4 MIMO
- Quad configuration, 4x4 MIMO ready
- Clam shell configuration

## Product Classification

**Product Type** Diplexer

## General Specifications

**Color** Gray

**Common Port Label** Common

**Modularity** 4-Quad

**RF Connector Interface** 4.3-10 Female

## Dimensions

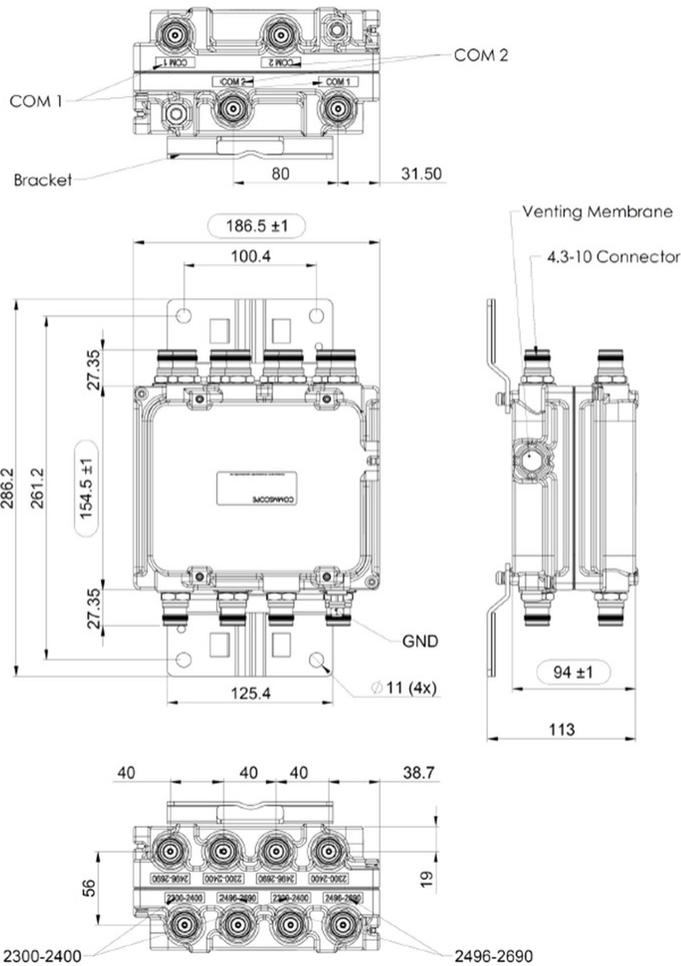
**Height** 94 mm | 3.701 in

**Width** 154.5 mm | 6.083 in

**Depth** 186.5 mm | 7.343 in

## Outline Drawing

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	AWS 1700   DCS 1800   IMT 2100   IMT 2600   TDD 2300   TDD 2600   WCS 2300

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through Method</b>	No dc/AISG pass-through
<b>dc/AISG Pass-through, combiner</b>	dc/AISG blocking on all ports
<b>dc/AISG Pass-through, demultiplexer</b>	dc/AISG blocking on all ports
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

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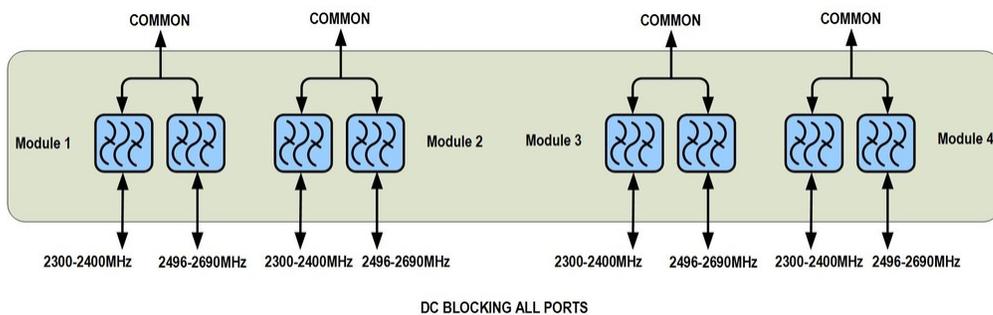
## Electrical Specifications

<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	2
<b>Port Designation</b>	Port 2300-2400	Port 2500-2690
<b>License Band</b>	WCS 2300, Band Pass TDD 2300, Band Pass	TDD 2600, Band Pass IMT 2600, Band Pass

## Electrical Specifications, Band Pass

<b>Frequency Range, MHz</b>	<b>2300–2400</b>	<b>2500–2690</b>
<b>Insertion Loss, typical, dB</b>	0.3	0.35
<b>Return Loss, typical, dB</b>	20	20
<b>Isolation, minimum, dB</b>	50	50
<b>Input Power, RMS, maximum, W</b>	300	300
<b>Input Power, PEP, maximum, W</b>	2000	2000
<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



## Material Specifications

**Finish** Painted

## Environmental Specifications

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

**Relative Humidity** Up to 100%

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

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

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## Packaging and Weights

<b>Volume</b>	2.7 L
<b>Weight, net</b>	4.5 kg   9.921 lb
<b>Weight, without mounting hardware</b>	4 kg   8.818 lb