

# E14F55P25

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Twin Diplexer, 703-768/791-935 MHz, DC Bypass on all frequency ports, 4.3-10 connectors

- Industry leading PIM performance
- Designed for network Modernization, introduction of LTE700 on existing site
- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction
- DC/AISG passing on all ports

## Product Classification

**Product Type** Diplexer

## General Specifications

**Color** Gray

**Modularity** 2-Twin

**Mounting** Pole | Wall

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

**RF Connector Interface** 4.3-10 Female

**RF Connector Interface Body Style** Medium neck

## Dimensions

**Height** 160 mm | 6.299 in

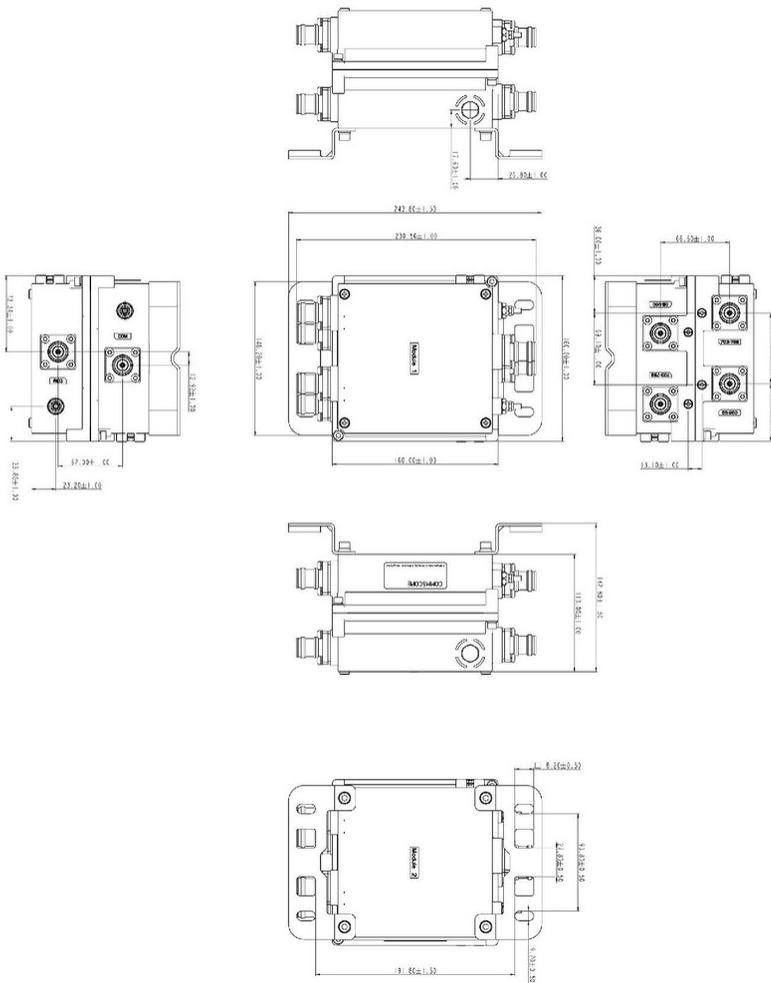
**Width** 113 mm | 4.449 in

**Depth** 160 mm | 6.299 in

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

## Outline Drawing

# E14F55P25



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	APT 700   CEL 900

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through, combiner</b>	Branch 1   Branch 2
<b>dc/AISG Pass-through, demultiplexer</b>	Branch 1   Branch 2
<b>Lightning Surge Current</b>	10 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

## Electrical Specifications

Sub-module

1 | 2

1 | 2

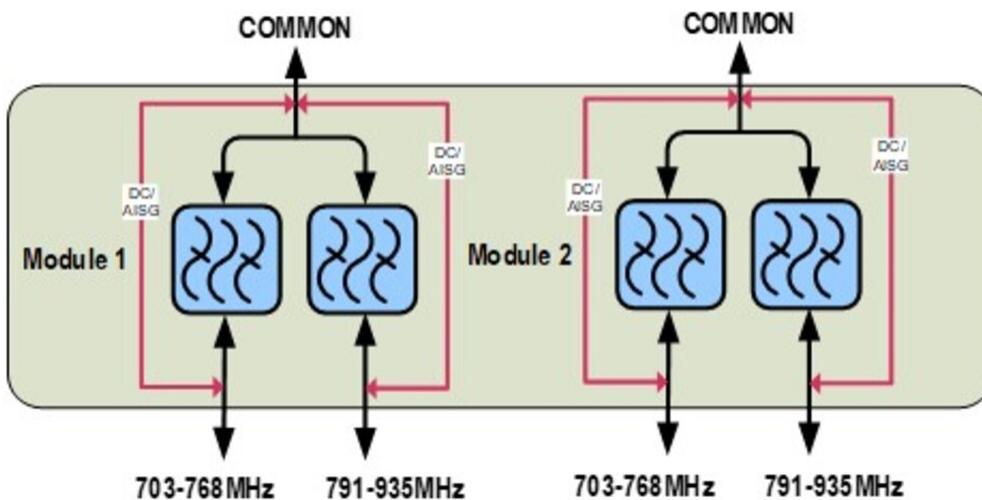
# E14F55P25

<b>Branch</b>	1	2
<b>Port Designation</b>	703-768	791-935
<b>License Band</b>	APT 700, Band Pass	CEL 900, Band Pass

## Electrical Specifications, Band Pass

	<b>703-768</b>	<b>791-935</b>
<b>Frequency Range, MHz</b>	703-768	791-935
<b>Insertion Loss, typical, dB</b>	0.3	0.3
<b>Return Loss, typical, dB</b>	20	20
<b>Isolation, minimum, dB</b>	50	50
<b>Input Power, RMS, maximum, W</b>	250	250
<b>Input Power, PEP, maximum, W</b>	2500	2500
<b>3rd Order PIM, typical, dBc</b>	-162	-162
<b>3rd Order PIM Test Method</b>	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
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

# E14F55P25

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<b>Included</b>	Mounting hardware
<b>Volume</b>	2.9 L
<b>Weight, net</b>	3.9 kg   8.598 lb
<b>Weight, without mounting hardware</b>	3.6 kg   7.937 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system