

# E14F06P45

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Twin Diplexer, 694–862 MHz/880–960 MHz, DC SMART bypass all, with 4.3-10 connectors

- New 4.3-10 connectors for improved PIM performance and size reduction
- Minimal Insertion Loss
- DC/AISG SMART bypass functionality

## 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** Long neck

## Dimensions

**Height** 110 mm | 4.331 in

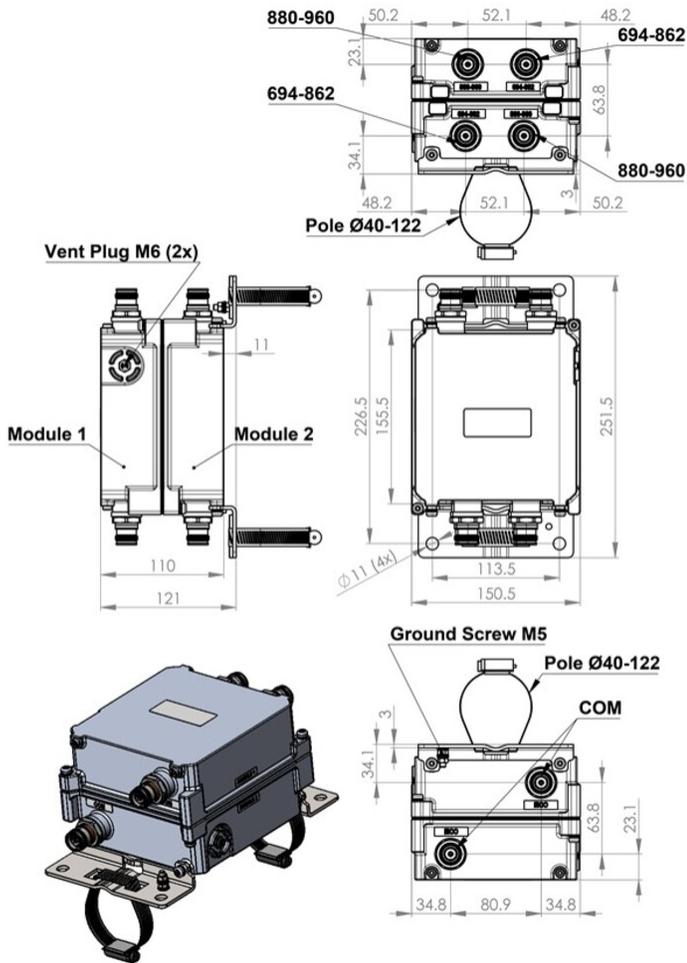
**Width** 150.5 mm | 5.925 in

**Depth** 155.5 mm | 6.122 in

**Mounting Pipe Diameter Range** 43–122 mm

## Outline Drawing

# E14F06P45



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	APT 700   CEL 900   EDD 800   LMR 750   LMR 800   LMR 900   USA 700   USA 750

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through, combiner</b>	dc Smart Bypass
<b>dc/AISG Pass-through, demultiplexer</b>	dc Smart Bypass
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

## Electrical Specifications

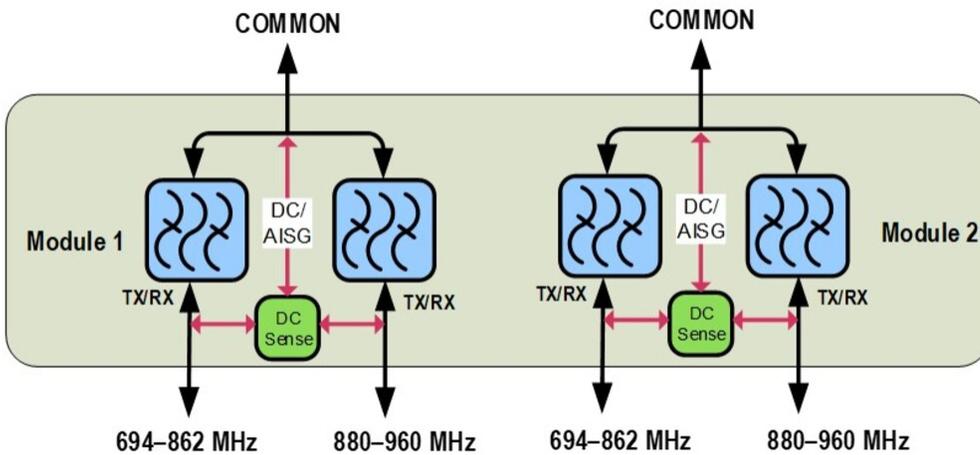
# E14F06P45

<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	2
<b>Port Designation</b>	PORT 1 694-862	PORT 2 880-960
<b>License Band</b>	APT 700, Band Pass LMR 750, Band Pass LMR 800, Band Pass USA 700, Band Pass USA 750, Band Pass EDD 800, Band Pass	LMR 900, Band Pass CEL 900, Band Pass

## Electrical Specifications, Band Pass

<b>Frequency Range, MHz</b>	<b>694–862</b>	<b>880–960</b>
<b>Insertion Loss, typical, dB</b>	0.2	0.2
<b>Return Loss, typical, dB</b>	22	22
<b>Isolation, minimum, dB</b>	50	50
<b>Input Power, RMS, maximum, W</b>	300	300
<b>Input Power, PEP, maximum, W</b>	3000	3000
<b>3rd Order PIM, typical, dBc</b>	-160	-160
<b>3rd Order PIM Test Method</b>	2 x 20 W CW tones	2 x 20 W CW tones

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

# E14F06P45

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## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Volume</b>	2.7 L
<b>Weight, net</b>	3.7 kg   8.157 lb
<b>Weight, without mounting hardware</b>	3.3 kg   7.275 lb

## Regulatory Compliance/Certifications

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