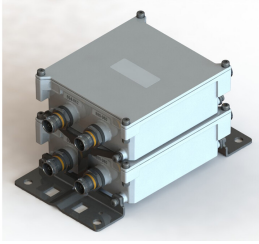


# E14F06P85

---



Twin Diplexer, 700-800/900 MHz, (DC Smart Bypass), 4.3-10 connectors

- Industry leading PIM performance
- Designed for network modernization application, introduction of LTE700 and LTE800 on existing site
- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction
- 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** Medium neck

## Dimensions

**Height** 155.5 mm | 6.122 in

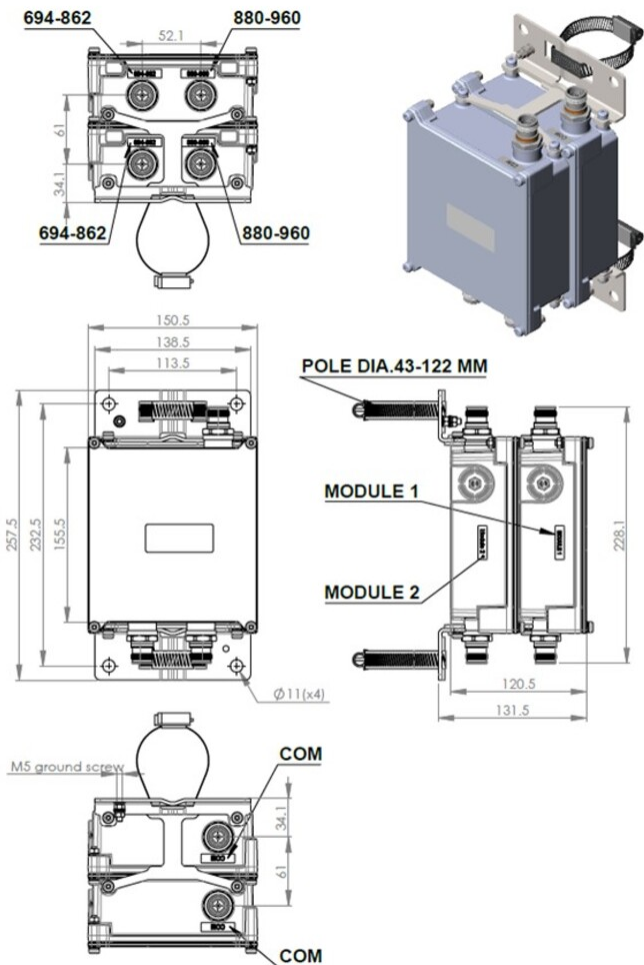
**Width** 120.5 mm | 4.744 in

**Depth** 150.5 mm | 5.925 in

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

## Dimension Drawing

# E14F06P85



## Electrical Specifications

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

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through Method</b>	Auto sensing
<b>dc/AISG Pass-through Path</b>	Auto sensing circuitry detects dc/AISG signal presence and selects path
<b>dc/AISG Pass-through, combiner</b>	Autosensing
<b>dc/AISG Pass-through, demultiplexer</b>	Autosensing
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

# E14F06P85

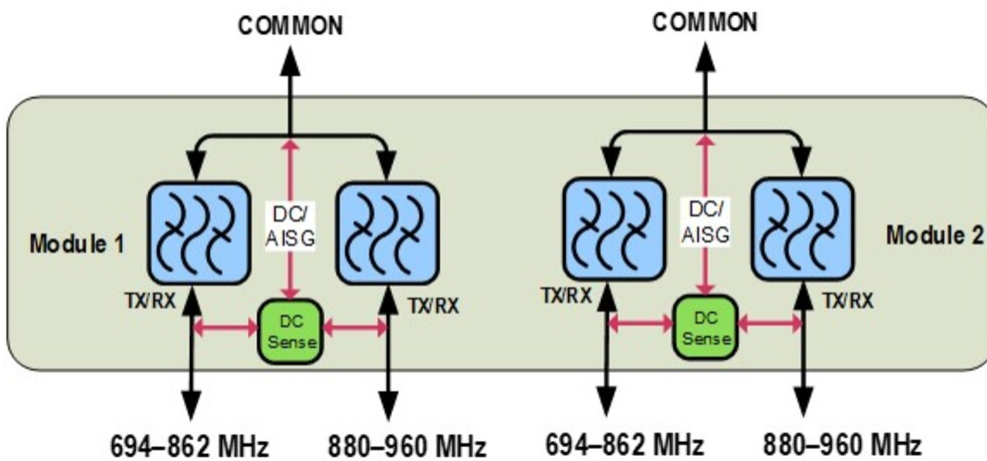
## Electrical Specifications

<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	2
<b>Port Designation</b>	694-862	880-960
<b>License Band</b>	APT 700, Band Pass EDD 800, Band Pass LMR 750, Band Pass USA 700, Band Pass USA 750, 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>	0.3	0.3
<b>Return Loss, typical, dB</b>	20	20
<b>Isolation, minimum, dB</b>	50	50
<b>Input Power, RMS, maximum, W</b>	300	300
<b>Input Power, PEP, maximum, W</b>	3000	3000
<b>3rd Order PIM, typical, dBc</b>	-157	-157
<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>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

# E14F06P85

---

## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Volume</b>	2.8 L
<b>Weight, net</b>	4.35 kg   9.59 lb
<b>Weight, without mounting hardware</b>	3.85 kg   8.488 lb

## Regulatory Compliance/Certifications

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