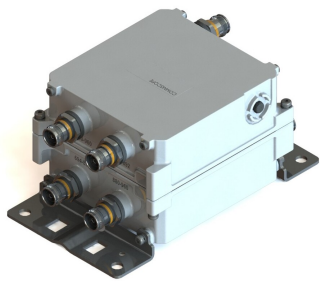# E14F06P45

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

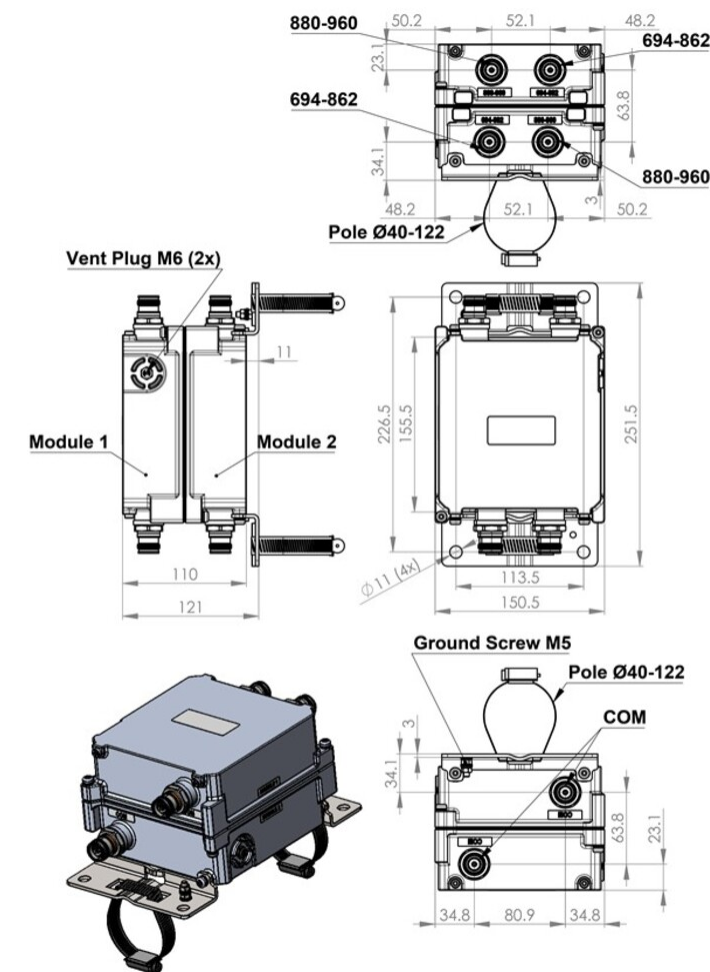|	
Color	Gray
Modularity	2-Twin
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck

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

COMMSCOPE®

Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 | CEL 900 | EDD 800 | LMR 750 | LMR 800 | LMR 900 | USA 700 | USA 750

Electrical Specifications, dc Power/Alarm

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

Electrical Specifications

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E14F06P45

Sub-module	1 | 2	1 | 2
Branch	1	2
Port Designation	PORT 1 694-862	PORT 2 880-960
License Band	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

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

Block Diagram
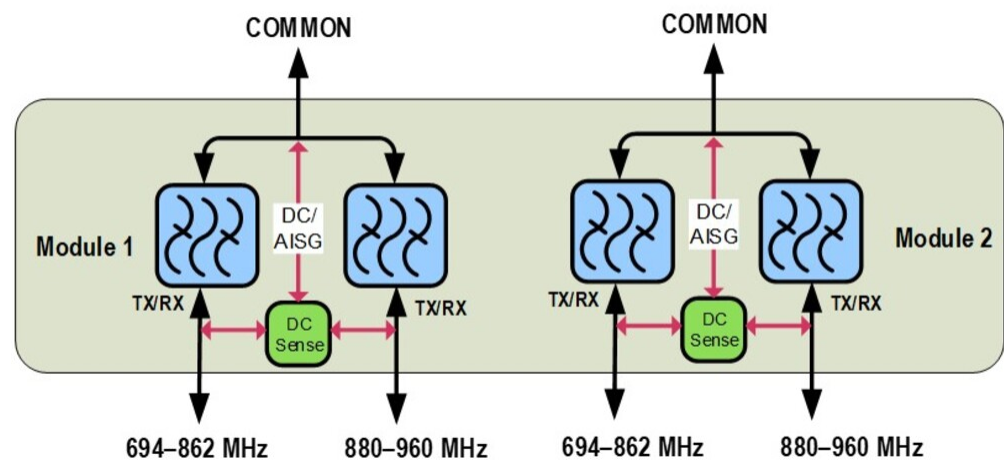
Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

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Packaging and Weights

Included	Mounting hardware
Volume	2.7 L
Weight, net	3.7 kg | 8.157 lb
Weight, without mounting hardware	3.3 kg | 7.275 lb

Regulatory Compliance/Certifications

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

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