

E14F06P54



Twin Diplexer, 703-788 MHz/796-847 MHz, DC SMART bypass, 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 138 mm | 5.433 in

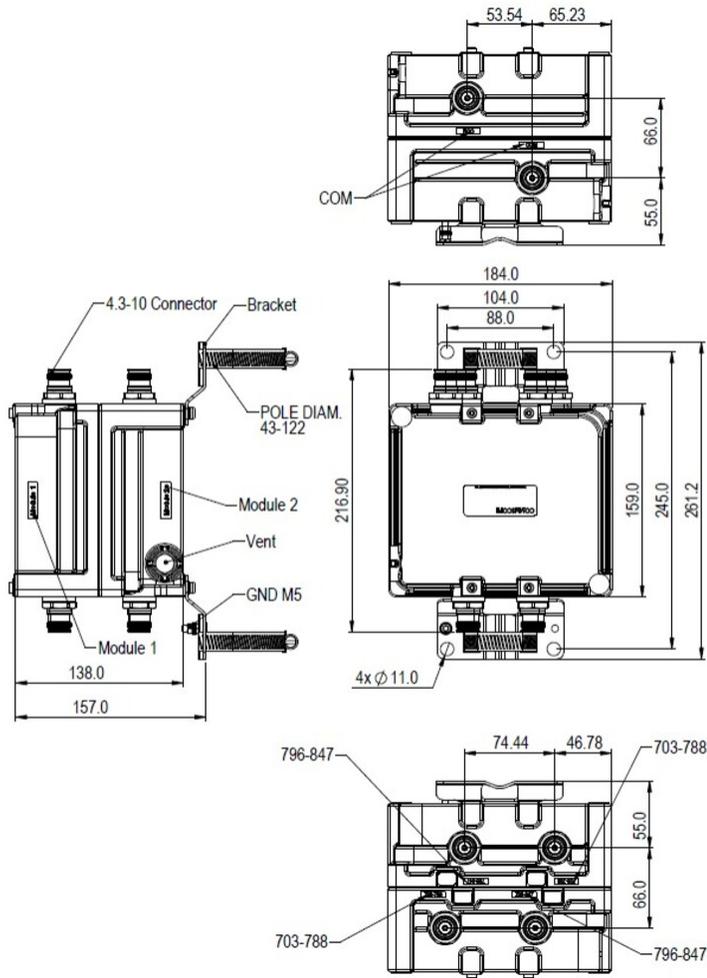
Width 184 mm | 7.244 in

Depth 159 mm | 6.26 in

Mounting Pipe Diameter Range 43–122 mm

Outline Drawing

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Electrical Specifications

Impedance 50 ohm

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method Auto sensing
dc/AISG Pass-through, combiner dc Smart Bypass
dc/AISG Pass-through, demultiplexer dc Smart Bypass
Lightning Surge Current 10 kA
Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications, AISG

AISG Carrier 2176 KHz \pm 100 ppm

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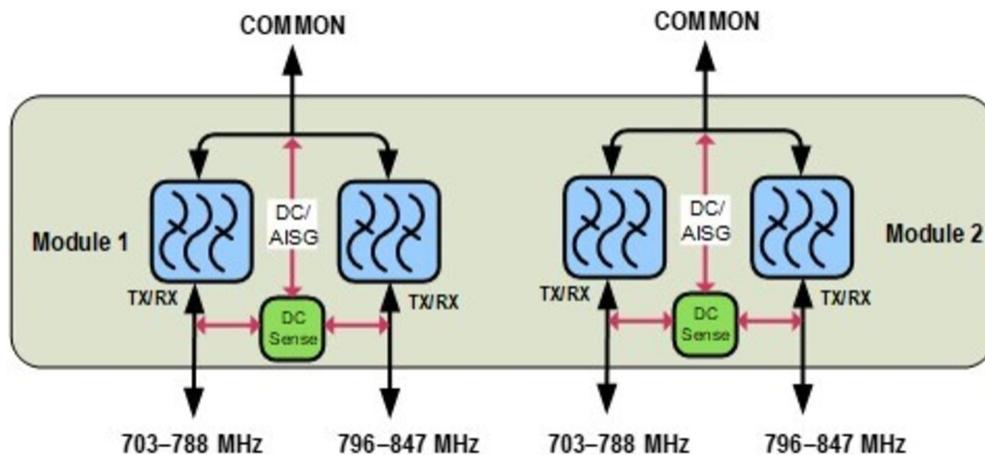
Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	PORT 1 703-788	PORT 2 796-847

Electrical Specifications, Band Pass

Frequency Range, MHz	703-788	796-847
Insertion Loss, typical, dB	0.2	0.3
Return Loss, typical, dB	20	20
Isolation, typical, dB	38	38
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	1000	1000
3rd Order PIM, typical, dBc	-162	-162
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)
Relative Humidity	5%–100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Environmental Test Method	ETSI EN 300 019-1-4
Ingress Protection Test Method	IEC 60529:2001, IP67

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Packaging and Weights

Included	Mounting hardware
Volume	4 L
Weight, with mounting hardware	4.3 kg 9.48 lb
Weight, without mounting hardware	4.1 kg 9.039 lb

Regulatory Compliance/Certifications

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