

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

MountingPole | WallMounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 FemaleRF Connector Interface Body StyleLong neck

Dimensions

 Height
 110 mm | 4.331 in

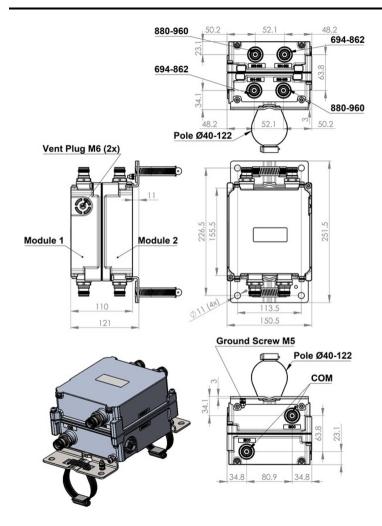
 Width
 150.5 mm | 5.925 in

 Depth
 155.5 mm | 6.122 in

Mounting Pipe Diameter Range 43-122 mm

Outline Drawing





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, combinerdc Smart Bypassdc/AISG Pass-through, demultiplexerdc Smart Bypass

Lightning Surge Current 5 kA

Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications

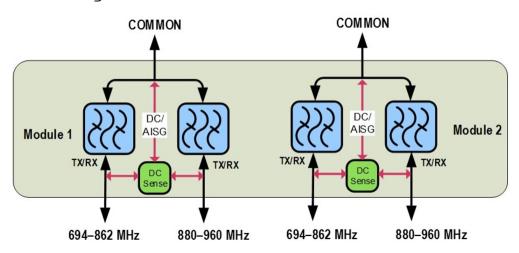


Sub-module	1 2	1 2
Branch	1	2
Port Designation	PORT 1 694-862	PORT 2 880-960
License Band	APT 700, Band Pass LMR 750, Band Pass LMR 800, Band Pass USA 700, Band Pass USA 750, Band Pass EDD 800, Band Pass	LMR 900, Band Pass CEL 900, Band Pass

Electrical Specifications, Band Pass

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 $-40 \, ^{\circ}\text{C} \text{ to } +65 \, ^{\circ}\text{C} \, (-40 \, ^{\circ}\text{F to } +149 \, ^{\circ}\text{F})$

Corrosion Test Method IEC 60068-2-11, 30 days
Ingress Protection Test Method IEC 60529:2001, IP67



Packaging and Weights

Included Mounting hardware

Volume 2.7 L

Weight, net $3.7 \text{ kg} \mid 8.157 \text{ lb}$ Weight, without mounting hardware $3.3 \text{ kg} \mid 7.275 \text{ lb}$

Regulatory Compliance/Certifications

Agency Classification

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

