



1.85mm SPST PIN Diode Switch Absorptive From 50 MHz to 67 GHz Rated at +27 dBm

The FMSW2024 is a Single Pole Single Throw (SPST) Absorptive PIN Diode Switch that operates from 0.05 to 67 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes 9.5 dB max insertion loss, -4 dB max return loss, 25 dB min isolation, and 150 nsec max switching speed. The design incorporates TTL-compatible driver circuitry for accurate logic control. Operational temperature range is -30°C to +60°C and dual voltage controls of +5 Vdc and -5 Vdc are required. The package interface uses solder terminals and 1.85mm Female connectors.



Description	Min	Тур	Max	Units	
Frequency Range	0.05		67	GHz	
Impedance		50		Ohms	
Return Loss			-4	dB	
Insertion Loss			9.5	dB	
Isolation	25			dB	
Switching Time			150	ns	
Input Power (CW)			0.5	Watts	
Positive Operating Voltage		5		Vdc	
Negative Operating Voltage		-5		Vdc	
Current @ 5 Vdc		50		mA	
Current @ -5 Vdc		50		mA	
Operating Temperature	-30		+60	deg C	

Electrical Specification Notes:

Specified switching time includes TTL driver delay.

Mechanical Specifications

Length1 in [25.4 mm]Width1 in [25.4 mm]Height0.5 in [12.7 mm]Weight0.083 lbs [37.65 g]DesignAbsorptive, SPSTRF Connector1.85mm FemaleControl ConnectorSolder Pin

Environmental Specifications Temperature

Operating Range -30 to +60 deg C ESD Sensitivity ESD Sensitive Ma

ESD Sensitive Material. Transport material in Approved ESD bags. Handle only in ESD Workstation.





Features:

- SPST Absorptive Switch
- 0.05 GHz to 67 GHz
- Insertion Loss 9.5 dB max
- Isolation 25 dB min
- Power Input +27 dBm CW max

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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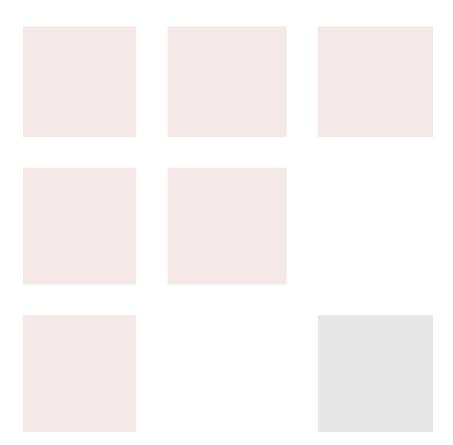




Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

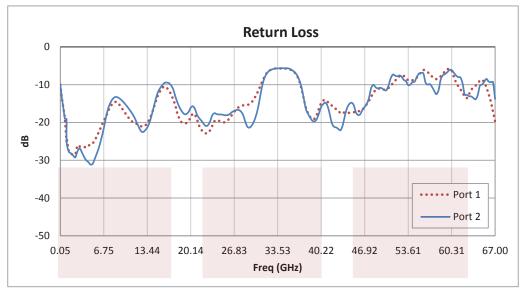
Notes:





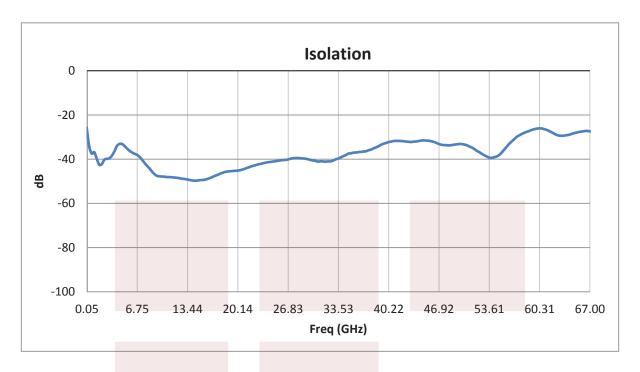


Typical Performance Data









1.85mm SPST PIN Diode Switch Absorptive From 50 MHz to 67 GHz Rated at +27 dBm from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

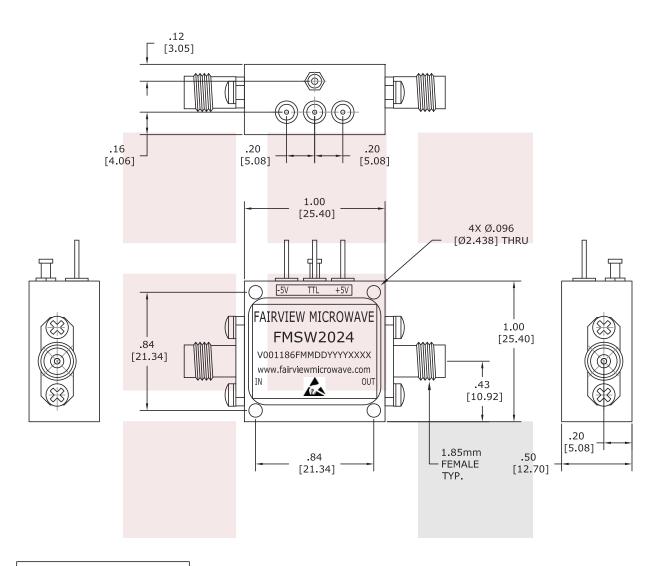
For additional information on this product, please click the following link: 1.85mm SPST PIN Diode Switch Absorptive From 50 MHz to 67 GHz Rated at +27 dBm FMSW2024

URL: https://www.fairviewmicrowave.com/1.85mm-spst-pin-diode-switch-absorptive-67-ghz-27-dbm-fmsw2024-p.aspx

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN: inches TOLERANCES ARE: [mm] $.XX \pm .01 \ [\pm .25] \\ .XXX \pm .001 \ [\pm .025]$

 $\ensuremath{^{*}}$ THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE $\ensuremath{^{\#1}}$ ON TITLE BLOCK.

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1.85mm SPST PIN Diode Switch Absorptive From 50	DWG NO FMSW2024			CAGE CODE 3FKR5		
MHz to 67 GHz Rated at +27 dBm	CAD FILE 113015	SHEET	SCALI	E N/A	SIZE A	2233