



2.92mm PIN Diode Switch SPDT From 2 GHz to 40 GHz Rated at +27 dBm

The FMSW2022 is an SPDT ABSORPTIVE PIN DIODE SWITCH that operates over a wide frequency band from 2 to 40 GHz. J1 and J2 ports are terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes max. insertion loss of 5.5dB, max. return loss of -5dB, min. isolation of 55dB, and max. switching speed of 100nsec. TTL-compatible driver circuitry is included for accurate logic control. The design requires dual voltage controls of +5 Vdc and -5 Vdc, with an operational temperature range of -30°C to +60°C. External connectors include solder terminals and 2.92mm female connectors.



Description	Min	Тур	Max	Units
Frequency Range	2		40	GHz
Impedance		50		Ohms
Return Loss			-5	dB
Insertion Loss			5.5	dB
Isolation	55			dB
Switching Time			100	ns
Input Power (CW)			0.5	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-5		V
Operating Temperature	-30		+60	deg C

Electrical Specification Notes:

Specified switching time includes TTL driver delay.

Mechanical Specifications

Length 1 in [25.4 mm]
Width 1.2 in [30.48 mm]
Height 0.6 in [15.24 mm]
Package Type Connectorized Module
Design SPDT, Absorptive
RF Connector 2.92mm Female
Control Connector 2.92mm Female

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.



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

Plotted and Other Data

Notes:



Features:

- SPDT Absorptive Switch
- 2 GHz to 40 GHz
- Insertion Loss 5.5 dB max
- Isolation 55 dB min
- Power Input +27 dBm CW max

Applications:

- · Test & Measurement
- Military Communication
- Commercial Communication

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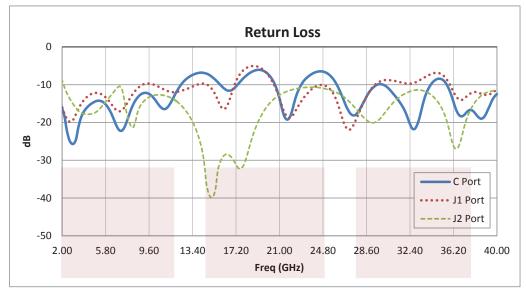
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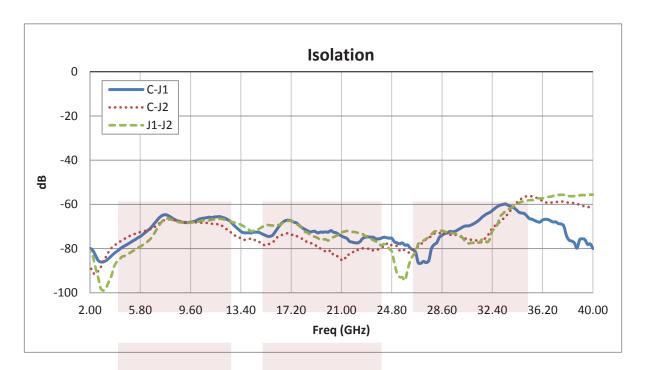
Typical Performance Data











2.92mm PIN Diode Switch SPDT From 2 GHz to 40 GHz Rated at +27 dBm from Fairview Microwave is in-stock 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.

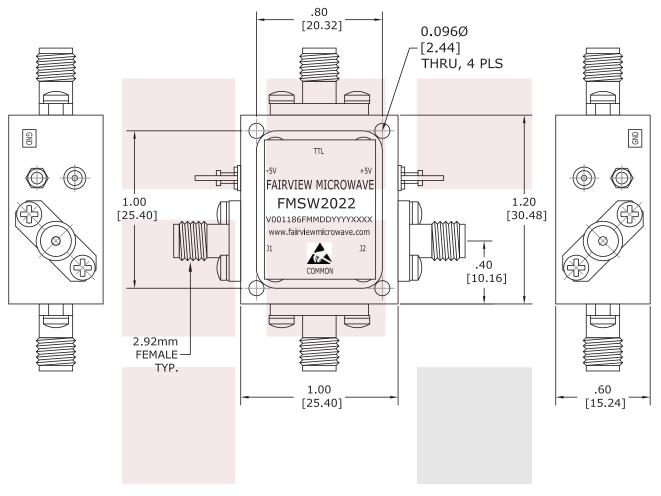
For additional information on this product, please click the following link: 2.92mm PIN Diode Switch SPDT From 2 GHz to 40 GHz Rated at +27 dBm FMSW2022

URL: http://www.fairviewmicrowave.com/2.92mm-pin-diode-switch-spdt-2-40-ghz-rated-27-dbm-fmsw2022-p.aspx

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LC	LOGIC TABLE				
TTL LOGIC	LOW LOSS	ISOLATION			
HIGH	C-J2	C-J1			
LOW	C-J1	C-J2			

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN: inches TOLERANCES ARE: [mm] .XX ± .01 [±.25] .XXX ± .001 [±.025]

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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
E P2mm PIN Diode Switch SPDT From 2 GHz to 40	DWG NO FMSW2022			CAGE CODE 3FKR5		
GHz Rated at +27 dBm	CAD FILE 102615	SHEET	SCALE	N/A	SIZE A	2233