

**1.85mm SPDT PIN Diode Switch From
 100 MHz to 67 GHz Rated at +27 dBm**

FMSW2025 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch that operates from 0.1 to 67 GHz. Electrical performance includes 7.5 dB max insertion loss, -4 dB max return loss, 20 dB min isolation, and 100 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, 1.85mm Female connectors and an SMA Female connector.



Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.1		67	GHz
Impedance		50		Ohms
Return Loss			-4	dB
Insertion Loss			7.5	dB
Isolation	20			dB
Switching Time			100	ns
Input Power (CW)			0.5	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-5		V
Current @ 5 V		50		mA
Current @ -5 V		50		mA
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]
Design	Reflective, SPDT
RF Connector	1.85mm Female
Control Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-30 to +60 deg C
ESD Sensitivity	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:

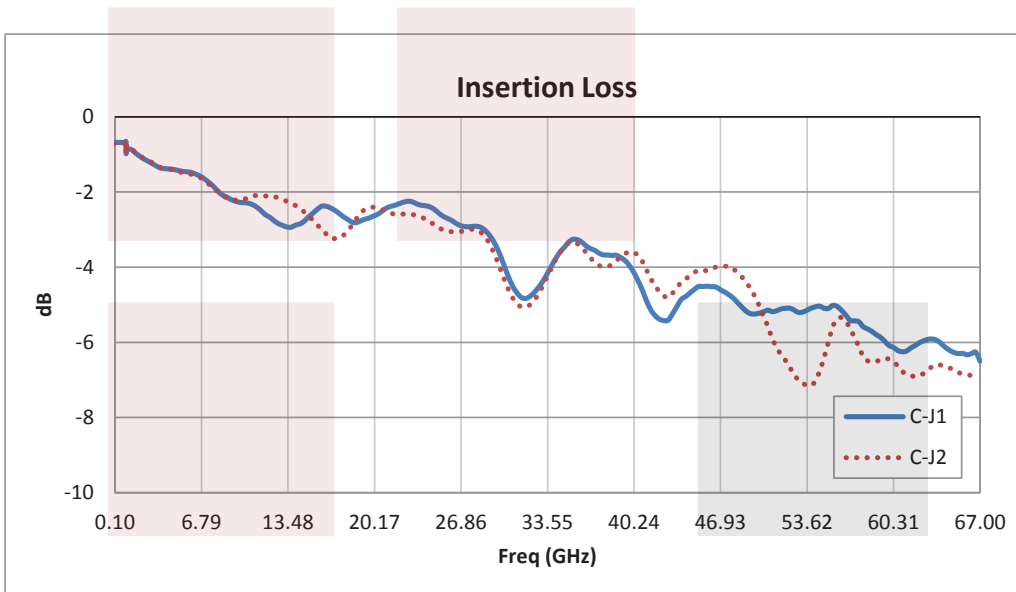
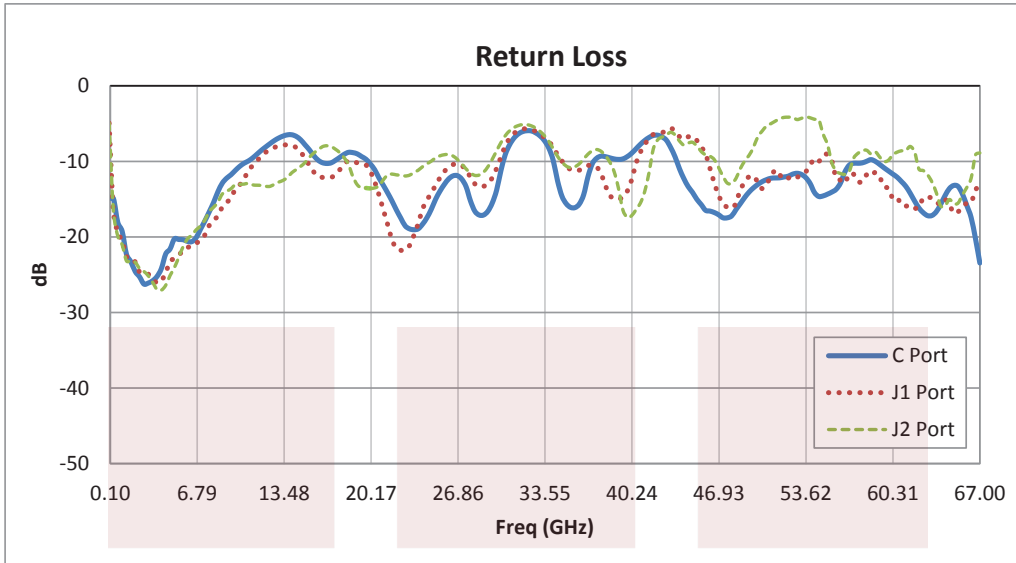
- SPDT Reflective Switch
- 0.1 GHz to 67 GHz
- Insertion Loss 7.5 dB max
- Isolation 20 dB min
- Power Input +27 dBm CW max

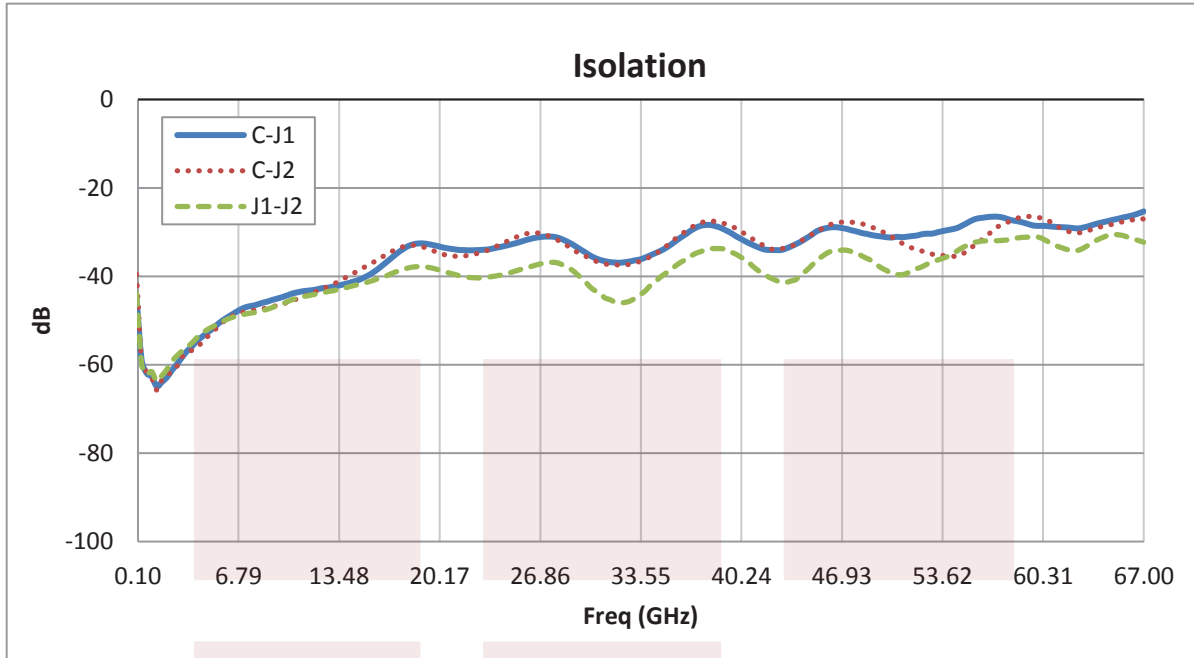
Applications:

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

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Typical Performance Data



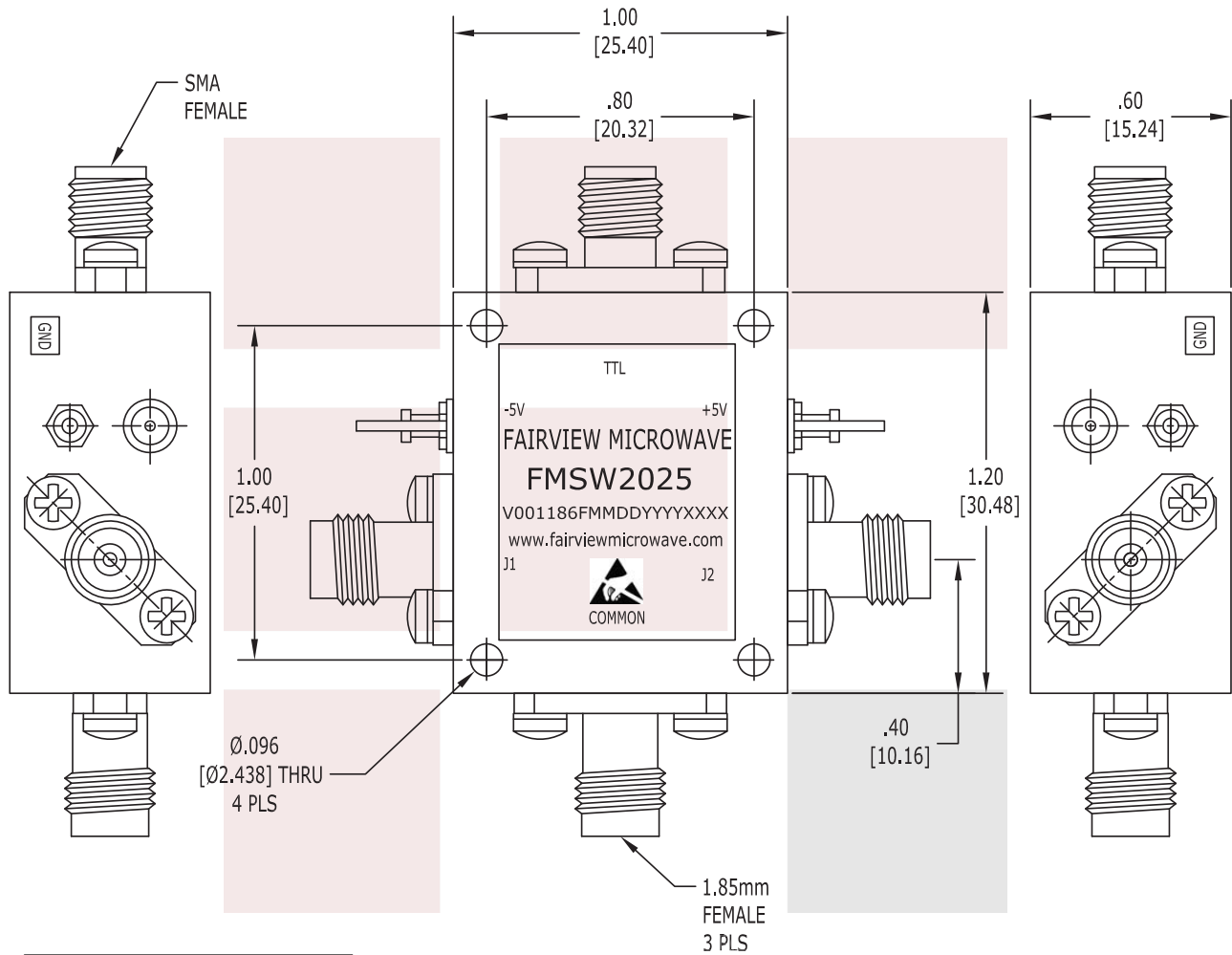


1.85mm SPDT PIN Diode Switch From 100 MHz to 67 GHz Rated at +27 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1.85mm SPDT PIN Diode Switch From 100 MHz to 67 GHz Rated at +27 dBm FMSW2025](http://www.fairviewmicrowave.com/1.85mm-spdt-pin-diode-switch-100-mhz-67-ghz-27-dbm-fmsw2025-p.aspx)

URL: <http://www.fairviewmicrowave.com/1.85mm-spdt-pin-diode-switch-100-mhz-67-ghz-27-dbm-fmsw2025-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches
 TOLERANCES ARE: [mm]
 .XX ± .01 [± 2.54]
 .XXX ± .005 [± .127]

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

FAIRVIEW MICROWAVE INC.		NOTES:		
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.		
TITLE		2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.		3. DIMENSIONS ARE IN INCHES [mm].
1.85mm SPDT PIN Diode Switch From 100 MHz to 67 GHz Rated at +27 dBm		DWG NO	FMSW2025	CAGE CODE
				3FKR5
CAD FILE	121515	SHEET	SCALE	N/A
			SIZE	A
				2233