

SMA PIN Diode Switch SP3T From 4 GHz to 8 GHz Rated at +20 dBm

FMSW6273 is a Single Pole Triple Throw (SP3T) Reflective PIN Diode Switch that operates from 4 GHz to 8 GHz. Typical performance includes < 2.0 dB insertion loss, > 75 dB isolation, and < 100 nsec switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -55°C to +85°C and dual voltage controls of +5 VDC and -15 VDC are required. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including humidity, shock, vibration, and temperature cycle. Package interfaces include solder terminals and female SMA connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	4		8	GHz
Impedance		50		Ohms
VSWR		1.6:1		
Insertion Loss		2		dB
Isolation		75		dB
Rise Time			75	ns
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15		Vdc
Current @ 5 Vdc		150		mA
Current @ -15 Vdc		75		mA
Operating Temperature	-55		+85	deg C

Mechanical Specifications

Length	1.5 in [38.1 mm]
Width	1.5 in [38.1 mm]
Height	0.4 in [10.16 mm]
Weight	0.107 lbs [48.53 g]
Finish	Blue Paint

Configuration

Design	Reflective, SP3T
RF Connector	SMA Female
RF Connector Option	Field Replaceable
Control Connector	Solder Pin

Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Storage Range	-65 to +125 deg C

Humidity	MIL-STD-202F, Method 103B, Condition B
Shock	MIL-STD-202F, Method 213B, Condition B



Features:

- SP3T Reflective Switch
- 4.0 GHz to 8.0 GHz
- Insertion Loss 2.0 dB typ
- Isolation 75 dB typ
- Power Input 20 dBm CW max
- Field Replaceable Connectors

Applications:

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

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Vibration
 Altitude
 Temperature Cycling
 ESD Sensitivity

MIL-STD-202F, Method 204D, Condition B
 MIL-STD-202F, Method 105C, Condition B
 MIL-STD-202F, Method 107D, Condition A
 ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.

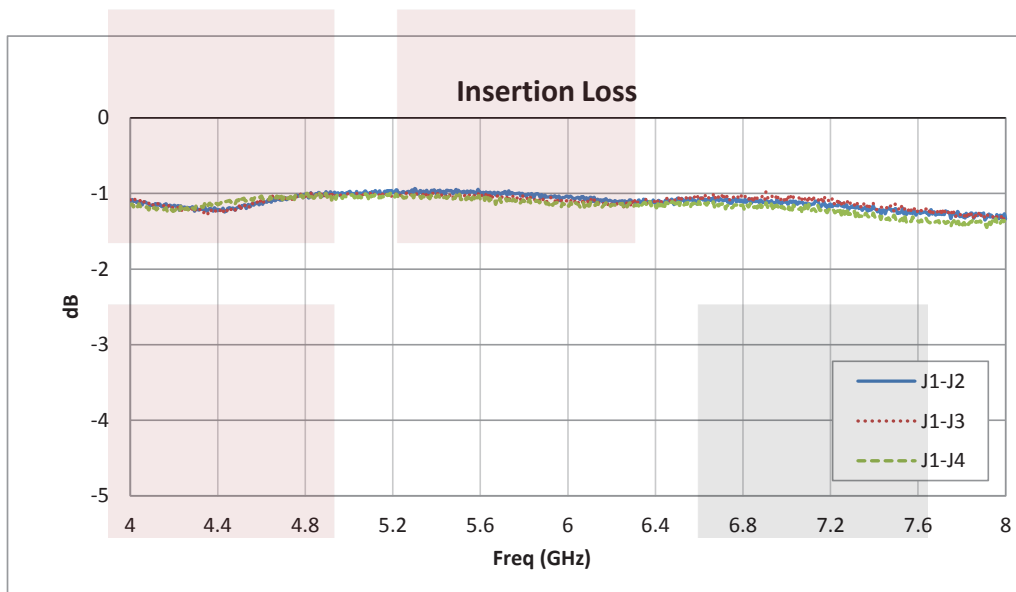
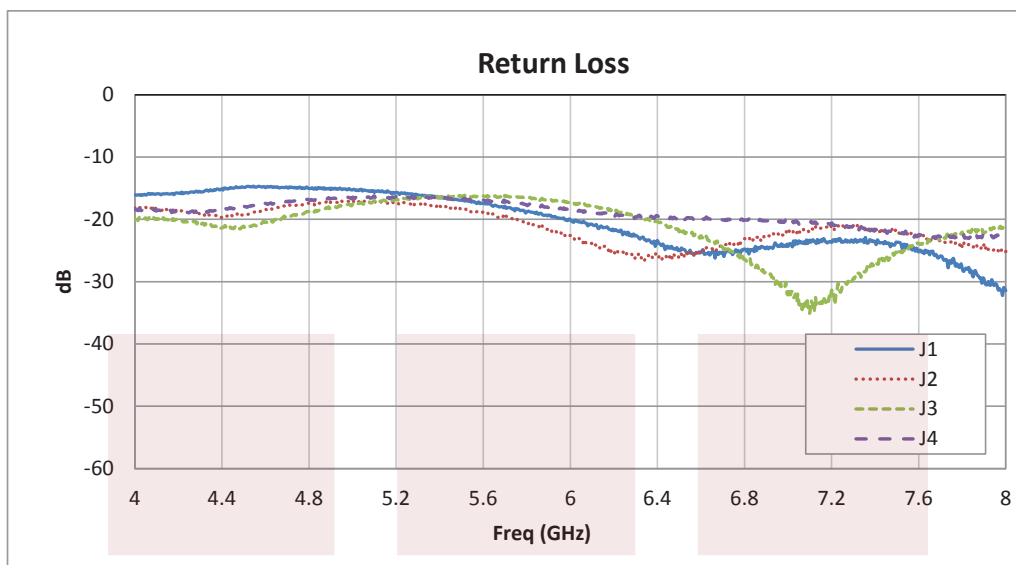


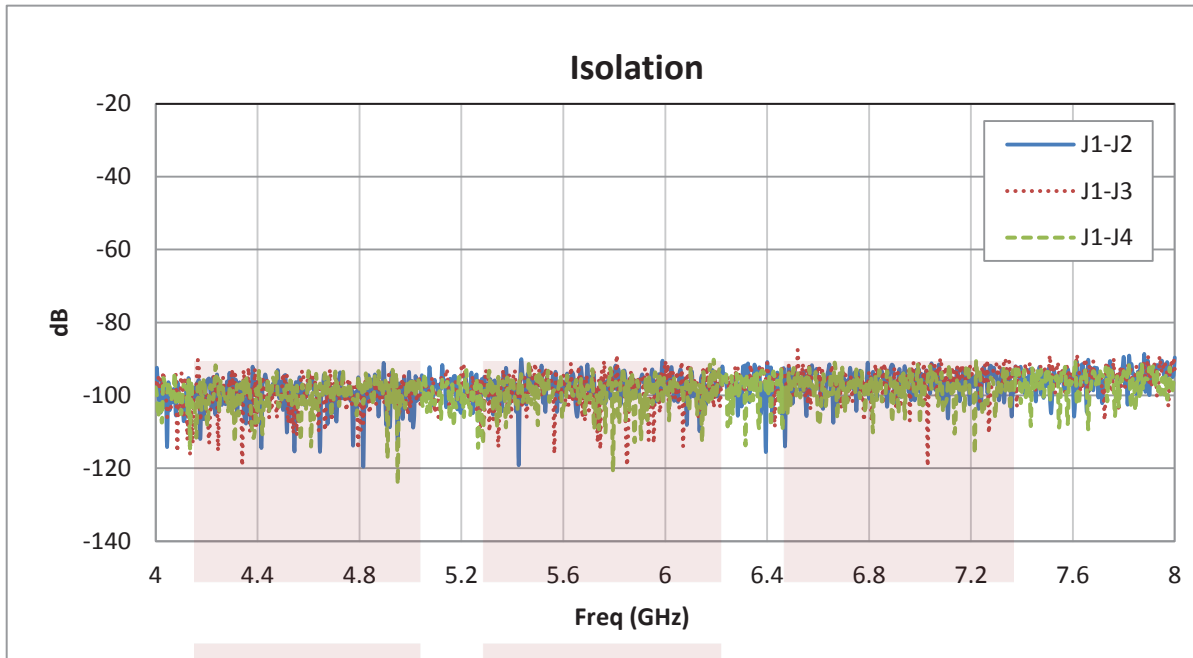
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



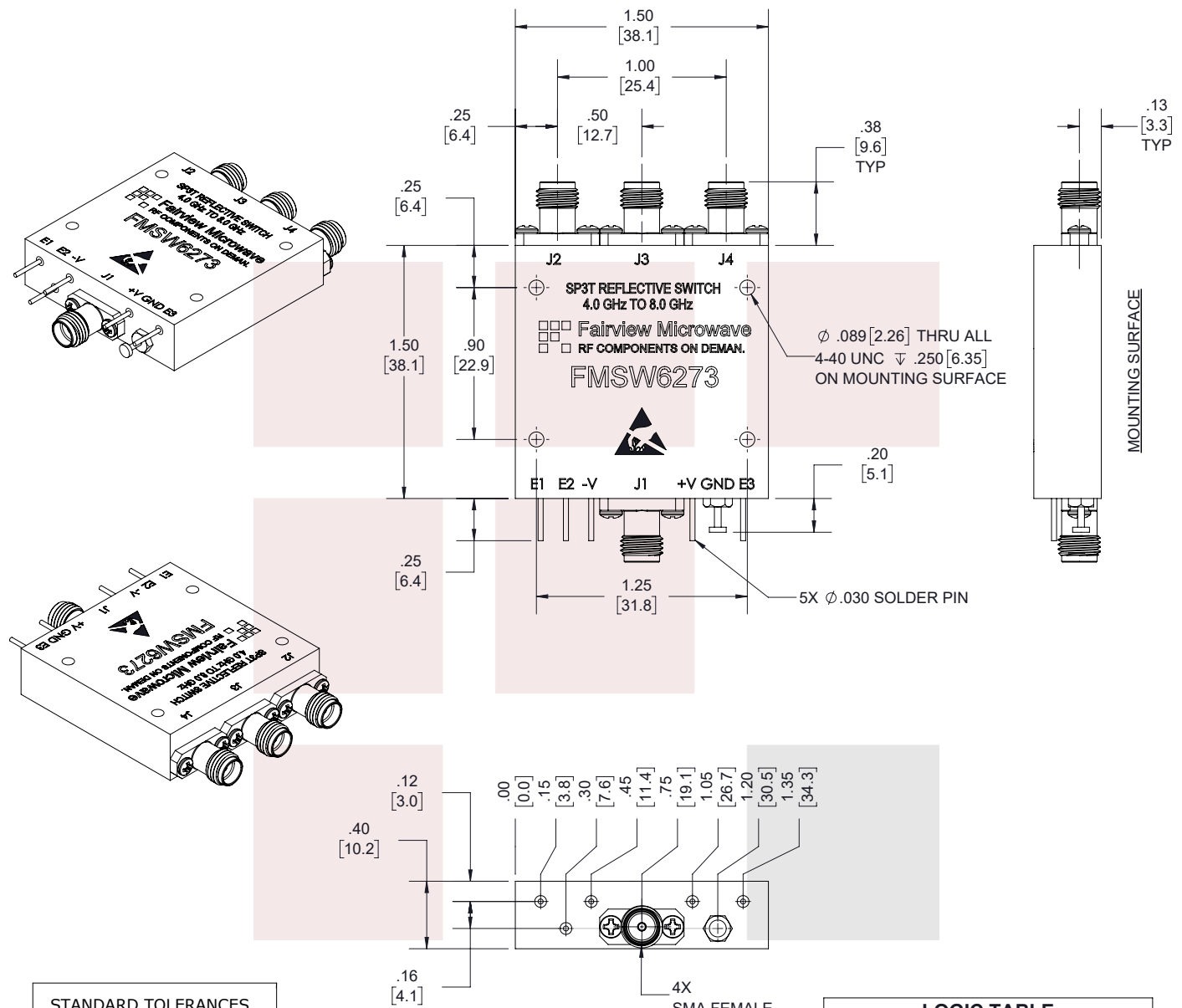


SMA PIN Diode Switch SP3T From 4 GHz to 8 GHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SP3T From 4 GHz to 8 GHz Rated at +20 dBm FMSW6273](https://www.fairviewmicrowave.com/sma-pin-diode-switch-sp3t-4-8-ghz-rated-20-dbm-fmsw6273-p.aspx)

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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.



STANDARD TOLERANCES

.X	±0.2
.XX	±0.02
.XXX	±0.010

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

LOGIC TABLE

E1	E2	E3	FUNCTION
0	1	1	J1-J2 "LOW LOSS"
1	0	1	J1-J3 "LOW LOSS"
1	1	0	J1-J4 "LOW LOSS"

TITLE SMA PIN Diode Switch SP3T From 4 GHz to 8 GHz Rated at +20 dBm	DWG NO FMSW6273		CAGE CODE 3FKR5		
	CAD FILE 04/03/18	SHEET 1 OF 1	SCALE N/A	SIZE A	7361