

**SMA PIN Diode Switch SPDT From  
 2 GHz to 4 GHz Rated at +30 dBm**

FMSW6208 is a SPDT Absorptive Switch designed to operate over the 2.0 GHz to 4.0 GHz Frequency Range. The switch is designed to maintain low insertion loss, high isolation, and fast switching speed.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
VSWR			1.6:1	
Insertion Loss			1.2	dB
Isolation	75			dB
Switching Time			100	ns
Input Power (CW)			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		80		mA
Current @ -15 V		50		mA
Operating Temperature	-40		+85	deg C

**Mechanical Specifications**

Length	1.2 in [30.48 mm]
Width	0.9 in [22.86 mm]
Height	0.35 in [8.89 mm]
Finish	Gray

**Configuration**

Package Type	Connectorized Module
Design	SPDT, Absorptive
RF Connector	SMA Female
Control Connector	Pin

**Environmental Specifications**

**Temperature**

Operating Range	-40 to +85 deg C
Storage Range	-55 to +125 deg C

Humidity	MIL-STD-202F, METHOD 103B COND. B
Shock	MIL-STD-202F, METHOD 213B COND. B
Vibration	MIL-STD-202F, METHOD 204D COND. B
Altitude	MIL-STD-202F, METHOD 105C COND. B
Temperature Cycling	MIL-STD-202F, METHOD 107D COND. A



**Features:**

- SPDT Absorptive Switch
- 2.0 GHz to 4.0 GHz
- Insertion Loss 1.2 dB max
- Isolation 75 dB min
- Power Input 1 W CW max
- Switching Speed 100 nsec max

**Applications:**

- Test & Measurement
- Military Communication
- Commercial Communication

Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

ESD Sensitivity

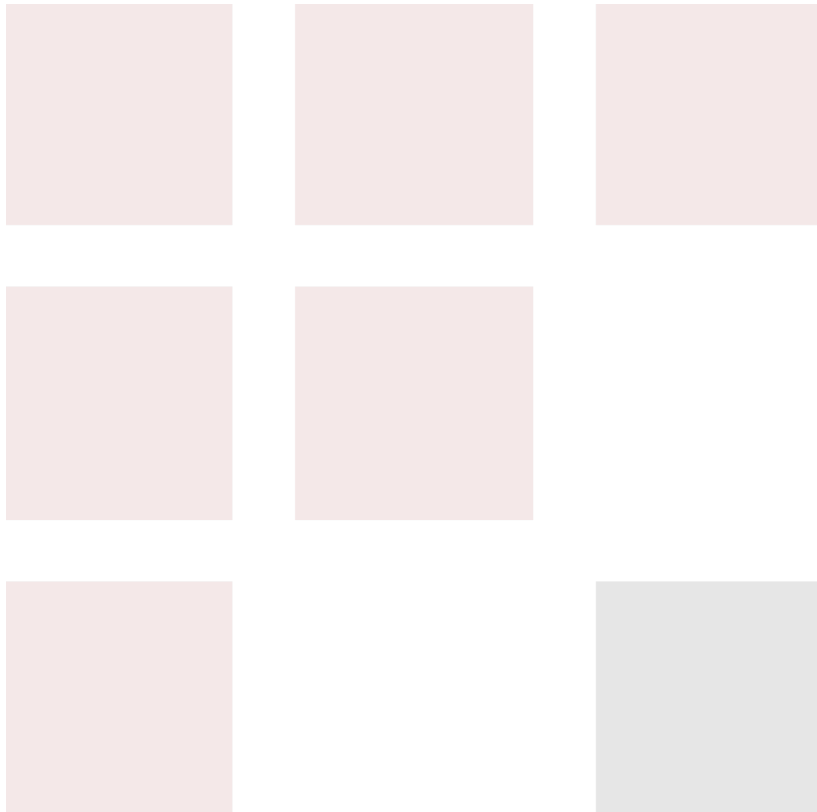
ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



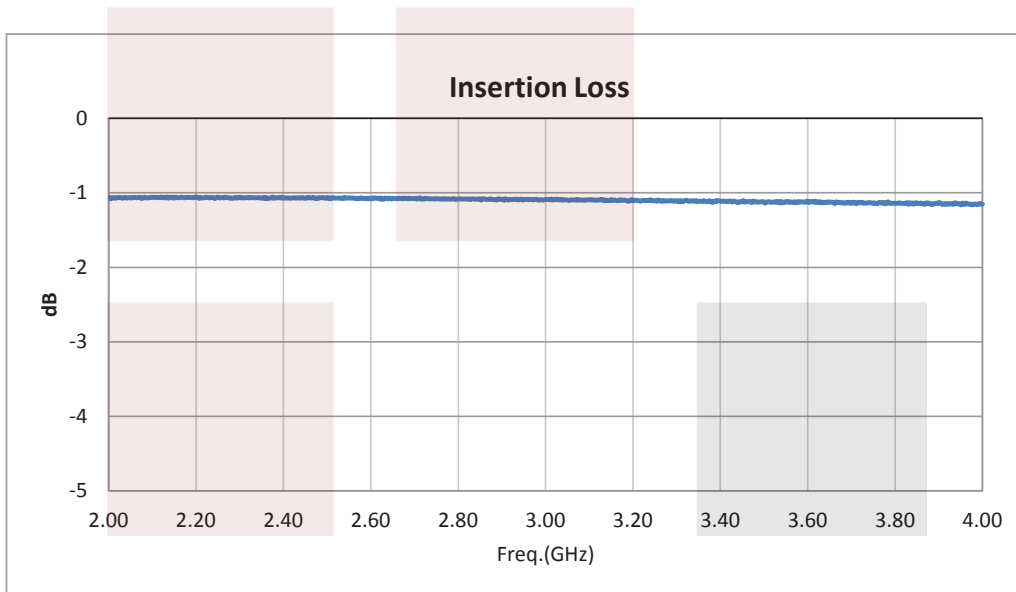
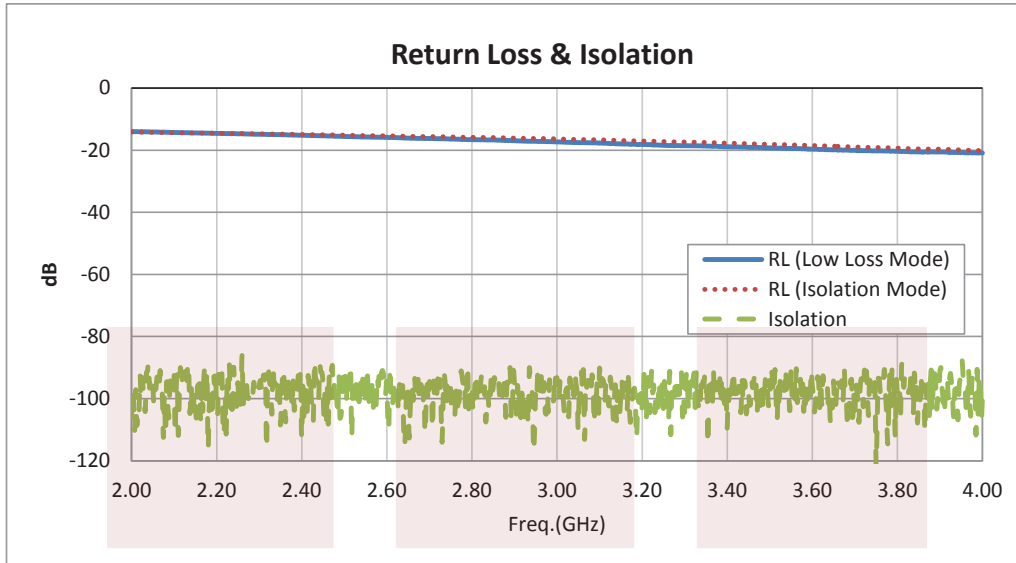
**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

**Plotted and Other Data**

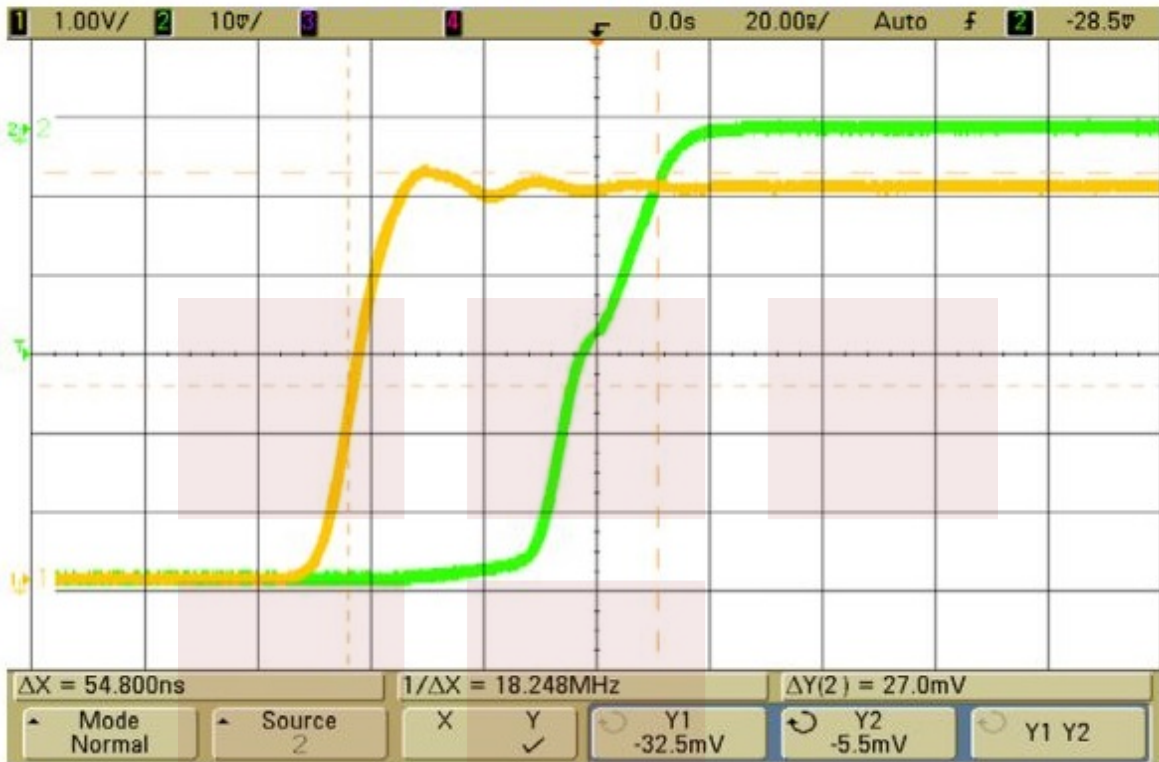
Notes:

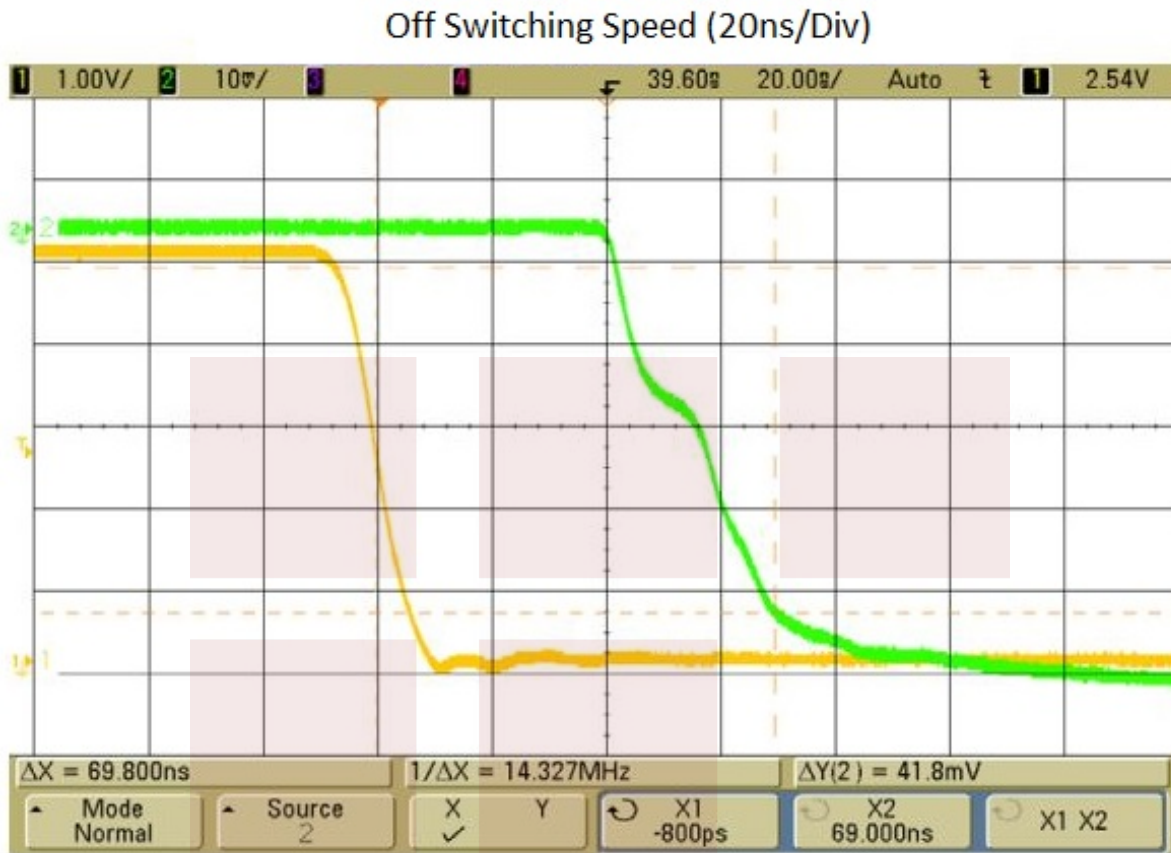


**Typical Performance Data**



On Switching Speed (20ns/Div)



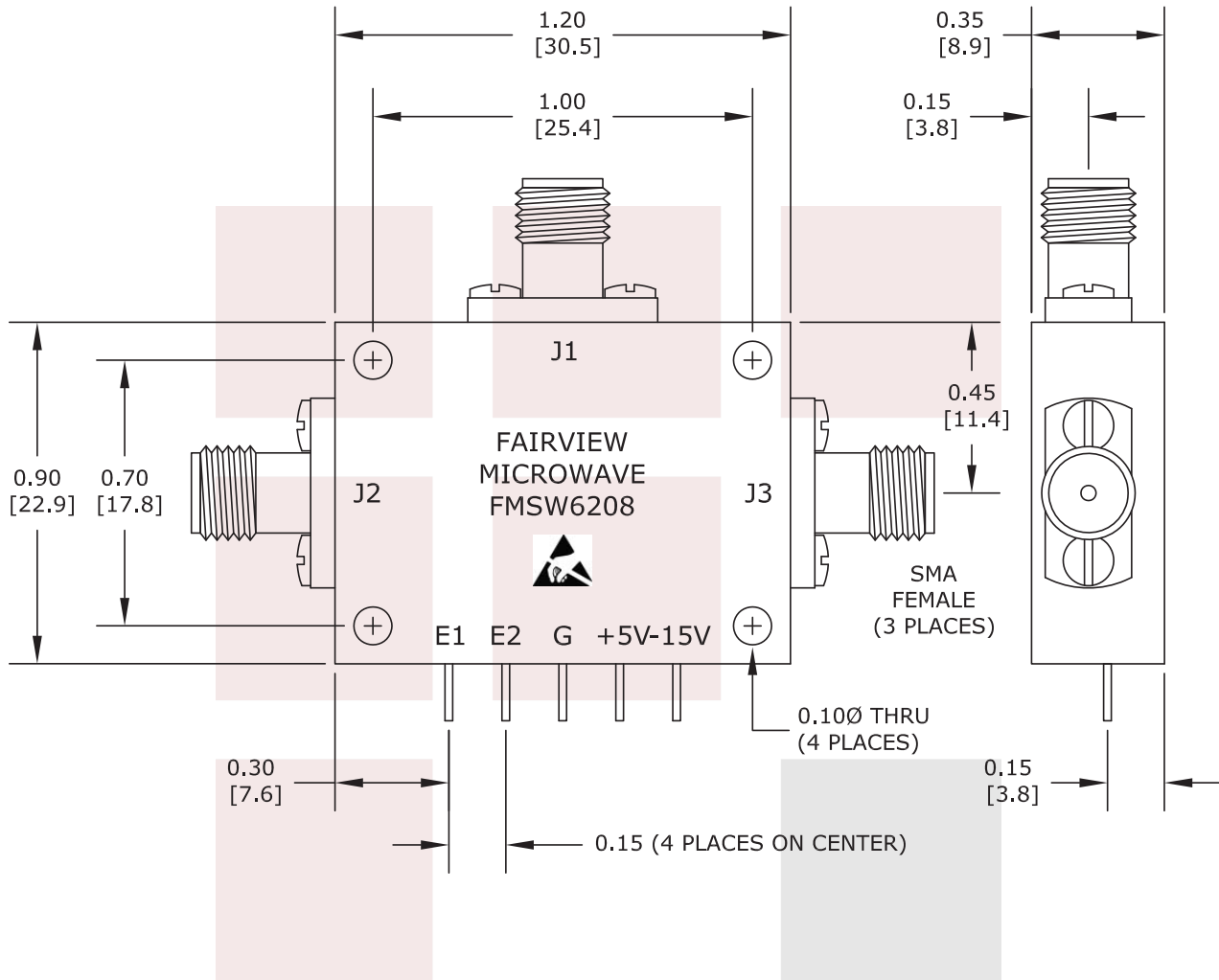


SMA PIN Diode Switch SPDT From 2 GHz to 4 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SPDT From 2 GHz to 4 GHz Rated at +30 dBm FMSW6208](http://www.fairviewmicrowave.com/sma-pin-diode-switch-spdt-2-4-ghz-rated-30-dbm-fmsw6208)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spdt-2-4-ghz-rated-30-dbm-fmsw6208-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.



ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

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

2 BIT TTL LOGIC TABLE		
E1	E2	FUNCTION
0	1	J1-J2 LOW LOSS
1	0	J1-J3 LOW LOSS

**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].

TITLE SMA PIN Diode Switch SPDT From 2 GHz to 4 GHz Rated at +30 dBm	DWG NO <b>FMSW6208</b>		CAGE CODE <b>3FKR5</b>		
	CAD FILE 111315	SHEET	SCALE N/A	SIZE A	2233