

SMA PIN Diode Switch SPST From 500 MHz to 18 GHz Rated at +20 dBm

FMSW6209 is a SPST Absorptive Switch designed to operate over the 0.5 GHz to 18.0 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	0.5		18	GHz
Impedance		50		Ohms
VSWR			2:1	
Insertion Loss			3.5	dB
Isolation	55			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		50		mA
Current @ -15 V		50		mA
Operating Temperature	-40		+85	deg C

Features:

- SPST Absorptive Switch
- 0.5 GHz to 18.0 GHz
- Insertion Loss 3.5 dB max
- Isolation 55 dB min
- Power Input 20 dBm CW max
- Switching Speed 100 nsec max

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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

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

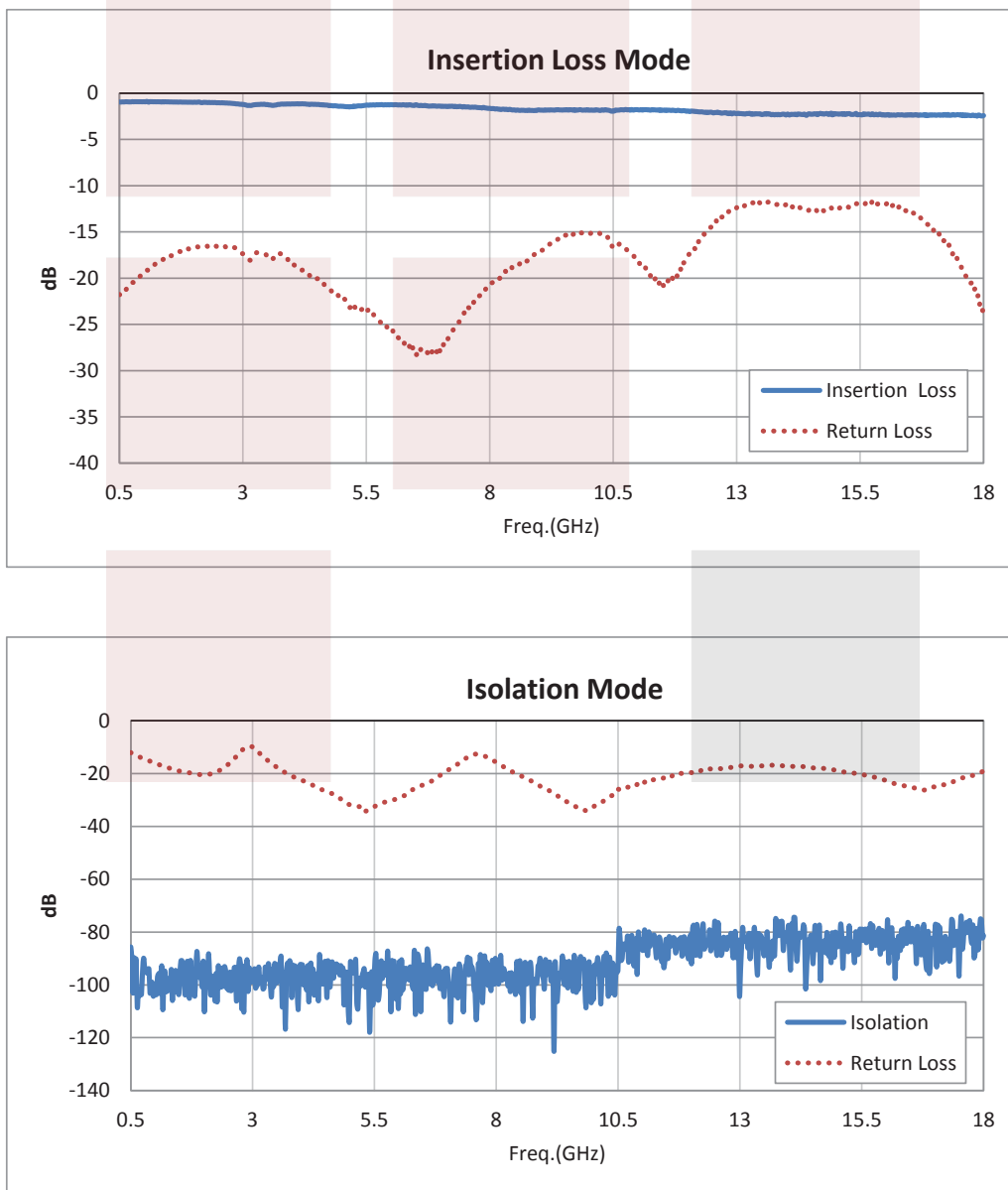


Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

Notes:

Typical Performance Data



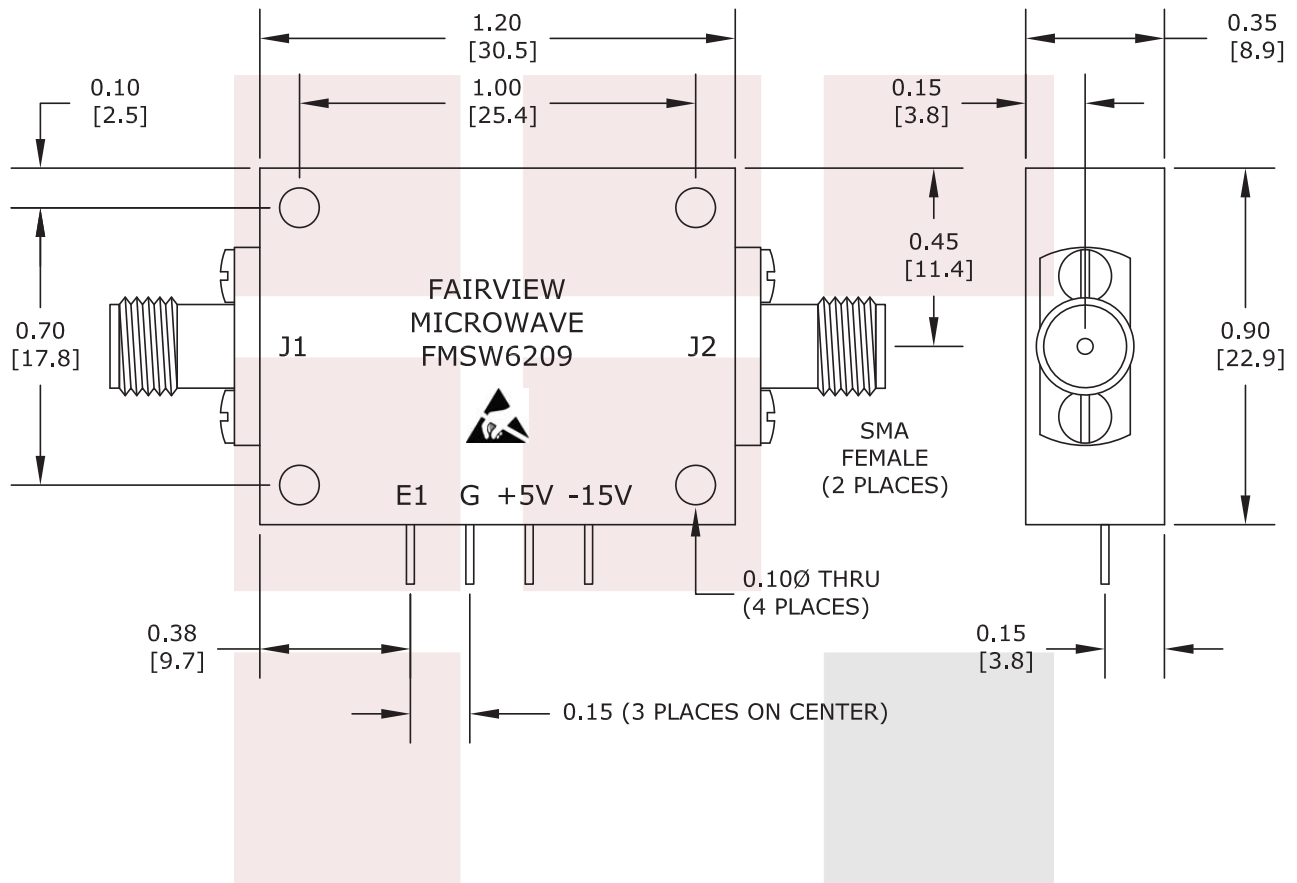
SMA PIN Diode Switch SPST From 500 MHz to 18 GHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SPST From 500 MHz to 18 GHz Rated at +20 dBm FMSW6209](#)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-500-mhz-18-ghz-rated-20-dbm-fmsw6209-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.

1 BIT TTL LOGIC TABLE	
E2	FUNCTION
0	LOW LOSS
1	ISOLATION

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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 SPST From 500 MHz to 18 GHz
Rated at +20 dBm

DWG NO FMSW6209 CAGE CODE 3FKR5

CAD FILE	112015	SHEET	SCALE	N/A	SIZE	A	2233
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