



SMA PIN Diode Switch SPST From 1 GHz to 2 GHz Rated at +20 dBm

FMSW6259 is a SINGLE POLE SINGLE THROW (SPST) REFLECTIVE PIN DIODE SWITCH that operates from 1 GHz to 2 GHz. Outstanding typical performance includes 0.75 dB insertion loss, > 80 dB isolation, and < 50 nsec switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -55oC to +85oC 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.



Description	Min	Тур	Max	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Insertion Loss	0.75			dB
Isolation	80			dB
Switching Time			50	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		20		mA
Current @ -15 V		20		mA
Operating Temperature	-55		+85	deg C

lew Mice

Features:

- SPST Reflective Switch
- 1.0 GHz to 2.0 GHz
- Insertion Loss 0.75 dB typ
- Isolation 80 dB min
- Power Input 20 dBm CW max

Applications:

- · Test & Measurement
- Military Communication
- Commercial Communication

Mechanical Specifications

 Length
 1 in [25.4 mm]

 Width
 1 in [25.4 mm]

 Height
 0.5 in [12.7 mm]

Finish Blue

Configuration

Package Type Connectorized Module
Design SPST, Reflective
RF Connector SMA Female
Control Connector Pin

Environmental Specifications

Temperature

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

Humidity MIL-STD-202F, Method 103B, Condi-

tion B

Shock MIL-STD-202F, Method 213B, Condi-

tion B

Vibration MIL-STD-202F, Method 204D, Condi-

tion B

Altitude MIL-STD-202F, Method 105C, Condi-

tion B

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Temperature Cycling ESD Sensitivity

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



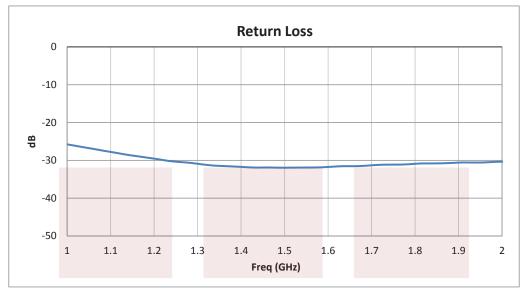
Compliance Certifications (visit www.FairviewMicrowave.com for current document)
REACH Compliant 12/17/2015

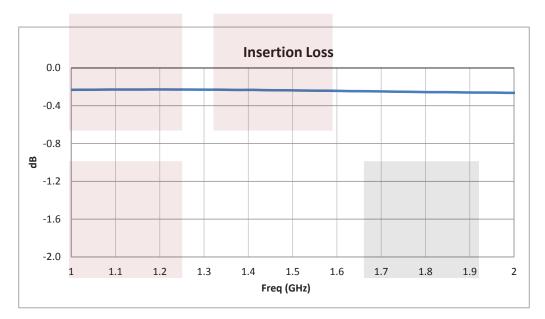
Plotted and Other Data	3	
Notes:		





Typical Performance Data











SMA PIN Diode Switch SPST From 1 GHz to 2 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.

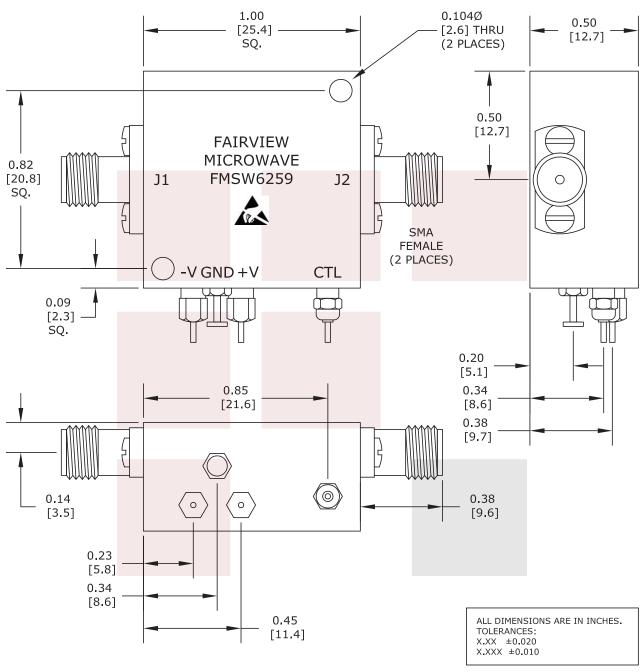
For additional information on this product, please click the following link: SMA PIN Diode Switch SPST From 1 GHz to 2 GHz Rated at +20 dBm FMSW6259

URL: http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-1-2-ghz-rated-20-dbm-fmsw6259-p.aspx

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

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SMA PIN Diode Switch SPST From 1 GHz to 2 GHz Rated at +20 dBm	DWG NO FMSW6259			CAGE CODE 3FKR5		
	CAD FILE 020316	SHEET	SCAL	E N/A	SIZE A	2233