

**SMA PIN Diode Switch SPST From 2 GHz to 26.5 GHz Rated at +30 dBm**

The FMSW2016 is an SPST ABSORPTIVE PIN DIODE SWITCH that operates over a wide frequency band from 2 to 26.5 GHz. Port 2 is terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes max. insertion loss of 4.5dB, max return loss of -7dB, min. isolation of 25dB, and max. switching speed of 150nsec. TTL-compatible driver circuitry is included for accurate logic control. The design requires dual voltage controls of +5 Vdc and -5 Vdc, with an operational temperature range of -30°C to +60°C. External connectors include solder terminals and SMA female connectors.



**Electrical Specifications**

TTL Control Logic

Off/Isolation: 0  
 On/Low Loss: 1

Description	Min	Typ	Max	Units
Frequency Range	2		26.5	GHz
Impedance		50		Ohms
Return Loss			-7	dB
Insertion Loss			4.5	dB
Isolation	25			dB
Switching Time			150	ns
Input Power (CW)			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-5		V
Operating Temperature	-30		+60	deg C

Electrical Specification Notes:  
 Specified switching time includes TTL driver delay.

**Mechanical Specifications**

Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]
Package Type	Connectorized Module
Design	SPST, Absorptive
RF Connector	SMA Female
Control Connector	Pin

**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.



**Features:**

- SPST Absorptive Switch
- 2 GHz to 26.5 GHz
- Insertion Loss 4.5 dB max
- Isolation 25 dB min
- Power Input +30 dBm CW max

**Applications:**

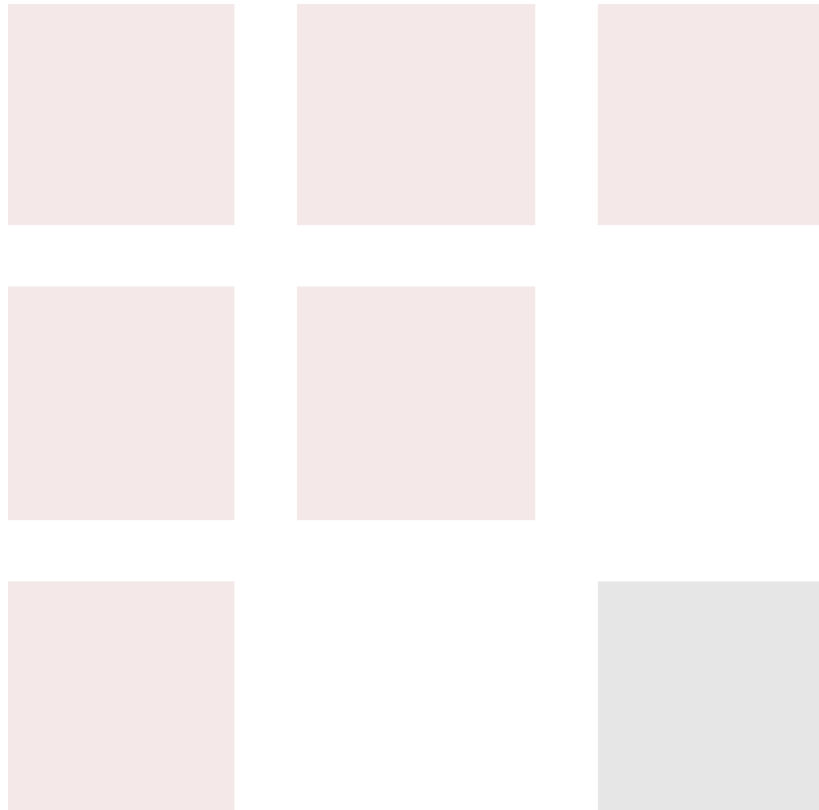
- Test & Measurement
- Military Communication
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Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

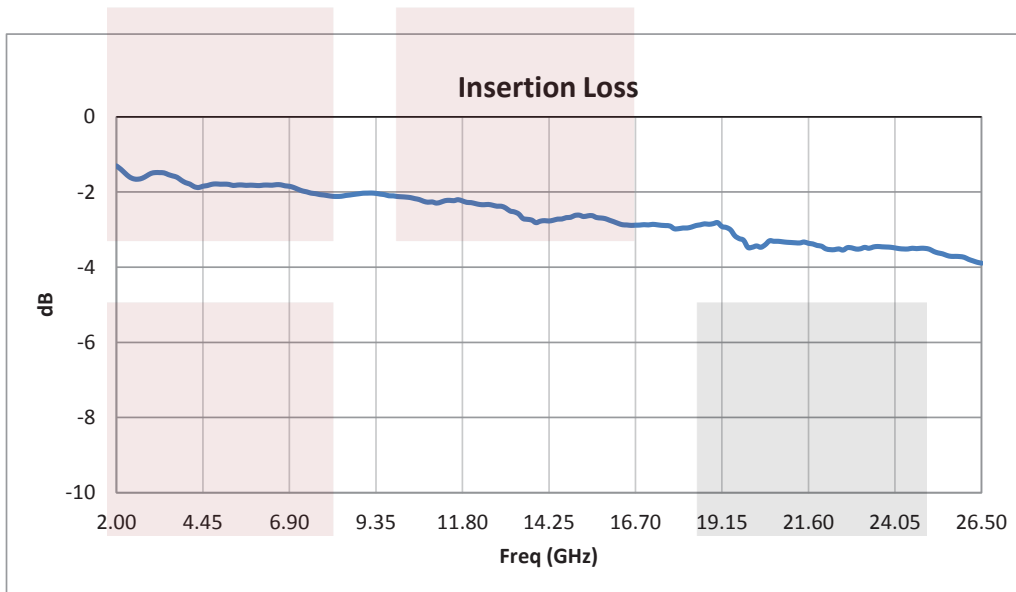
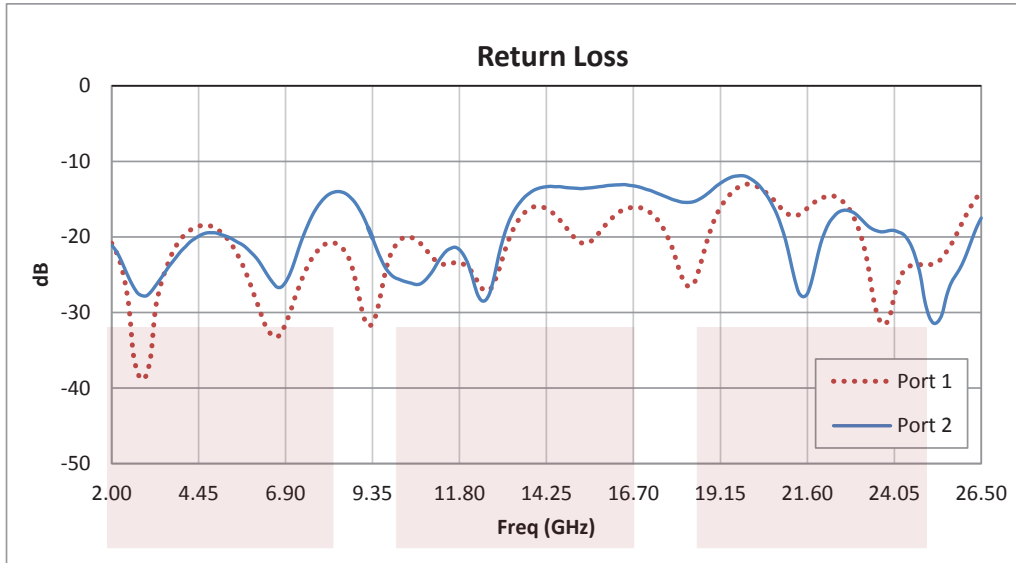
**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

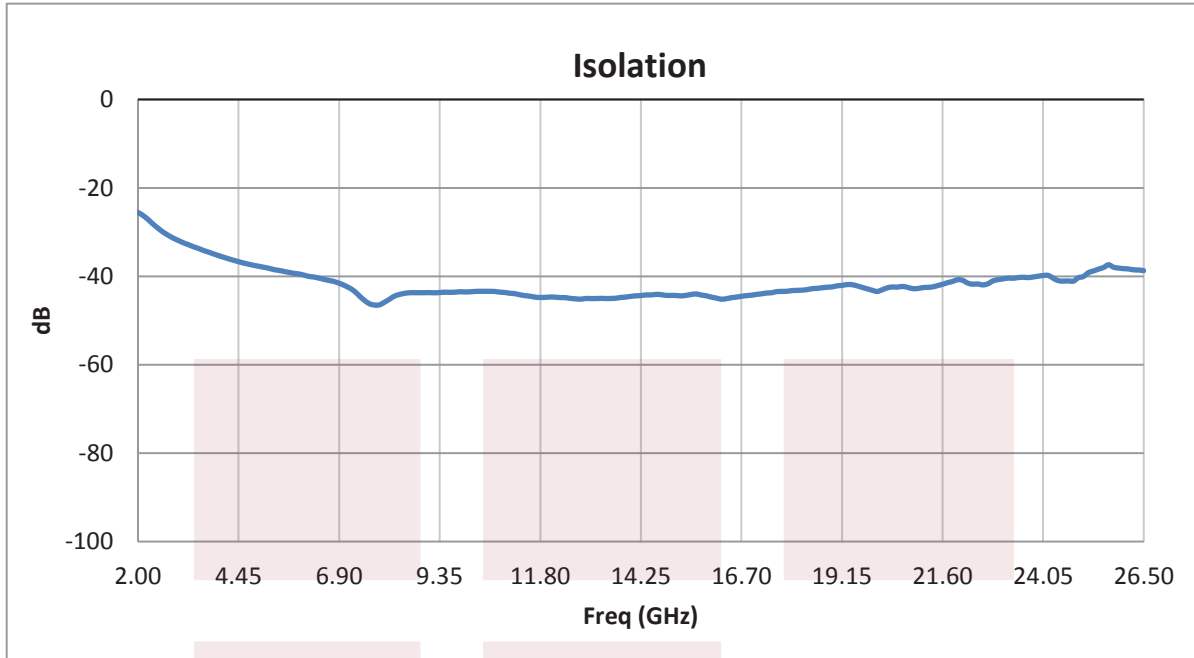
**Plotted and Other Data**

Notes:



**Typical Performance Data**



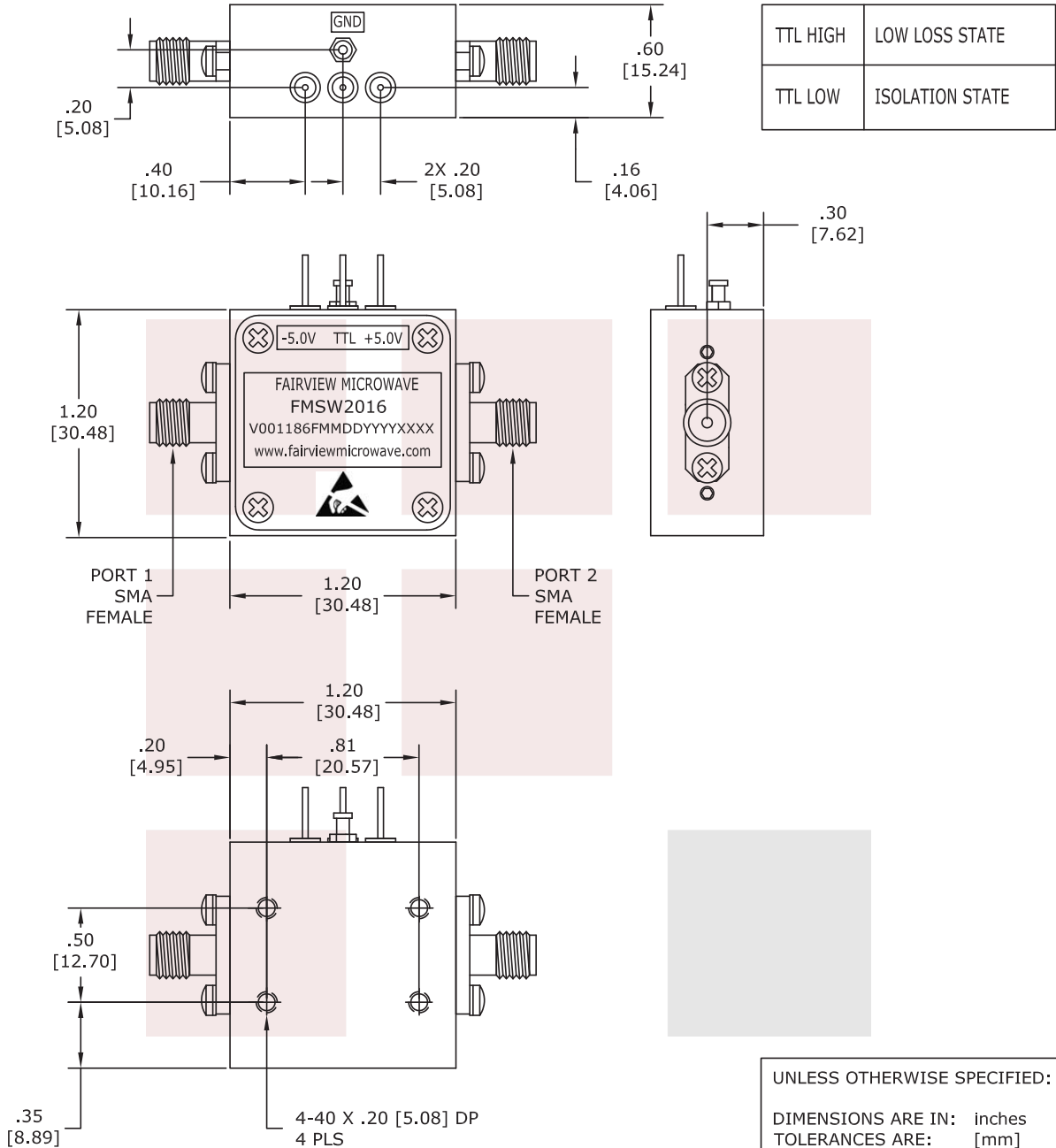


SMA PIN Diode Switch SPST From 2 GHz to 26.5 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SPST From 2 GHz to 26.5 GHz Rated at +30 dBm FMSW2016](#)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-2-26.5-ghz-rated-30-dbm-fmsw2016-p.aspx>

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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN: inches  
 TOLERANCES ARE: [mm]  
 .XX ± .01 [±.25]  
 .XX ± .001 [±.025]

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

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TITLE SMA PIN Diode Switch SPST From 2 GHz to 26.5 GHz Rated at +30 dBm		DWG NO <b>FMSW2016</b>		CAGE CODE <b>3FKR5</b>
CAD FILE	082615	SHEET	SCALE	N/A
			SIZE	A
				2233