

**SMA PIN Diode Switch SPST From 50 MHz to 26.5 GHz Rated at +30 dBm**

The FMSW2007 is an SPST REFLECTIVE PIN DIODE SWITCH that operates over a wide frequency band from 0.05 to 26.5 GHz. Electrical performance includes max. insertion loss of 5dB, max return loss of -7dB, min. isolation of 20dB, 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	0.05		26.5	GHz
Impedance		50		Ohms
Return Loss			-7	dB
Insertion Loss			5	dB
Isolation	20			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, Reflective  
 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 Reflective Switch
- 0.05 GHz to 26.5 GHz
- Insertion Loss 5 dB max
- Isolation 20 dB min
- Power Input +30 dBm CW max

**Applications:**

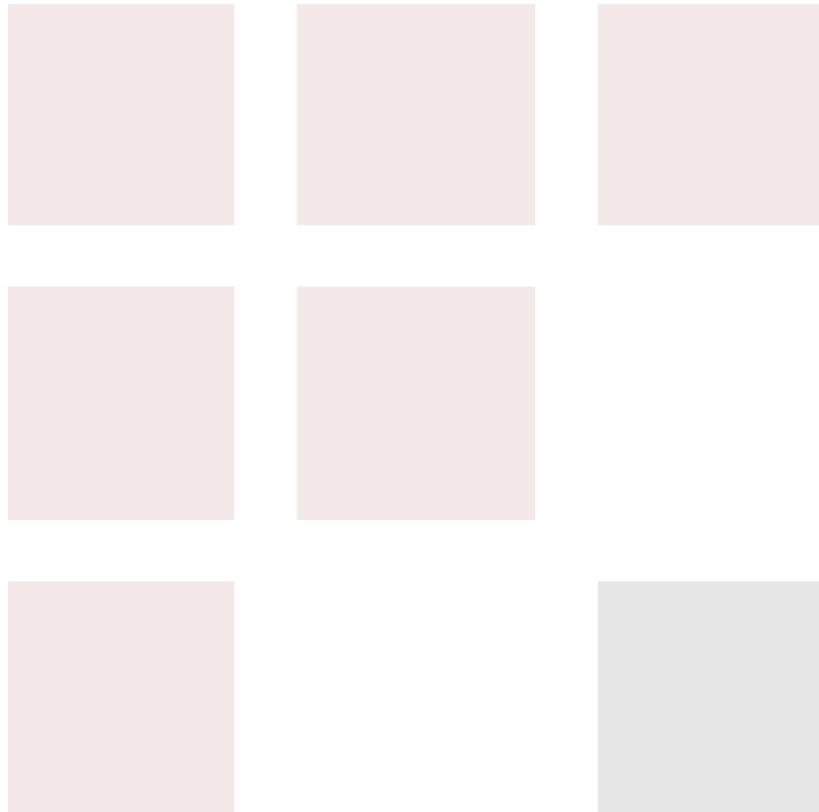
- Test & Measurement
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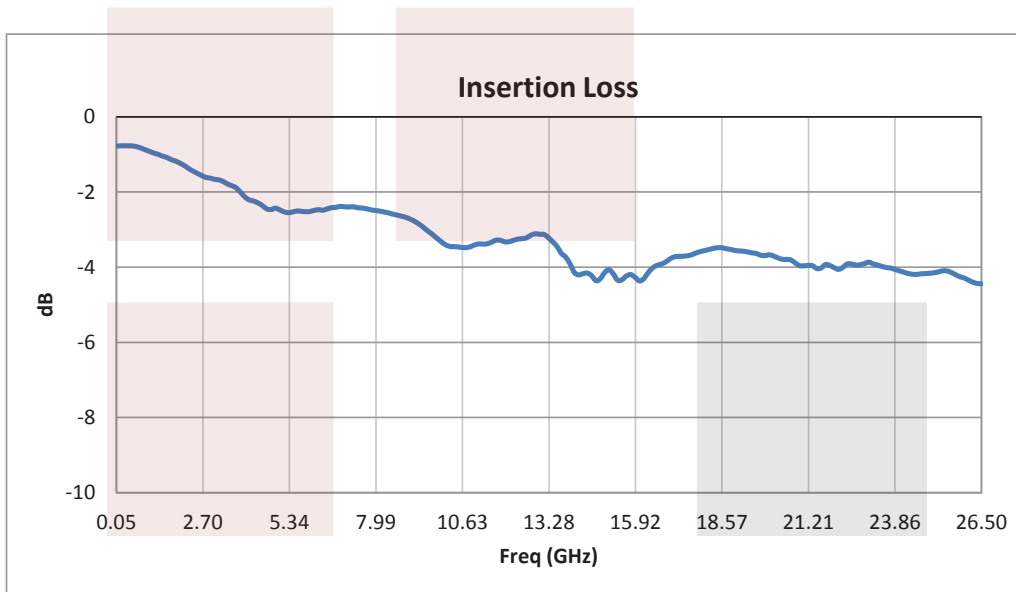
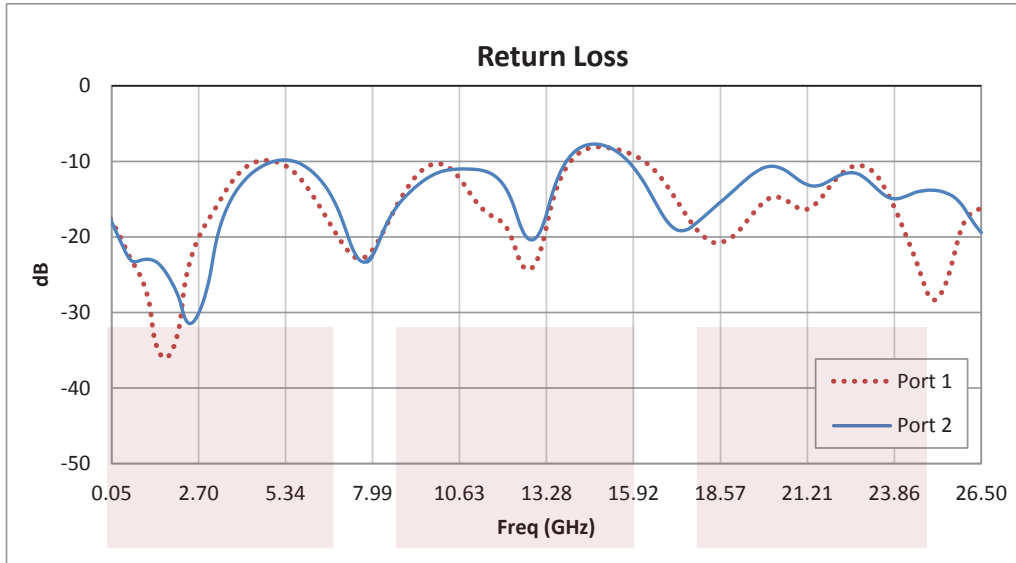
**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

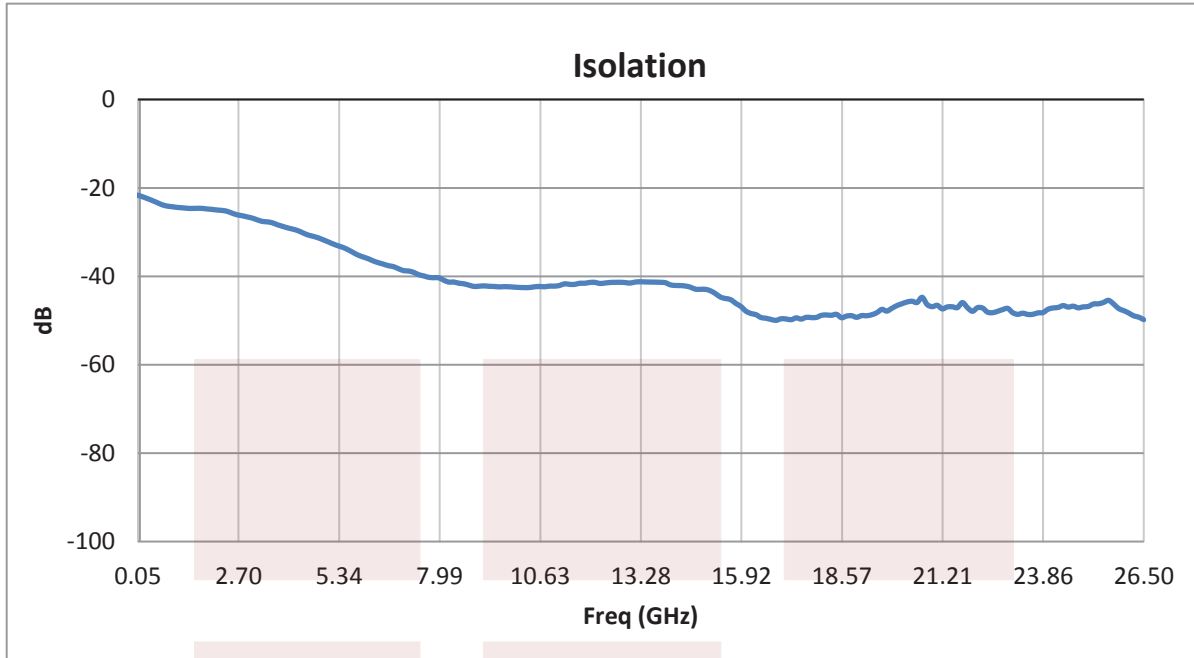
**Plotted and Other Data**

Notes:



**Typical Performance Data**



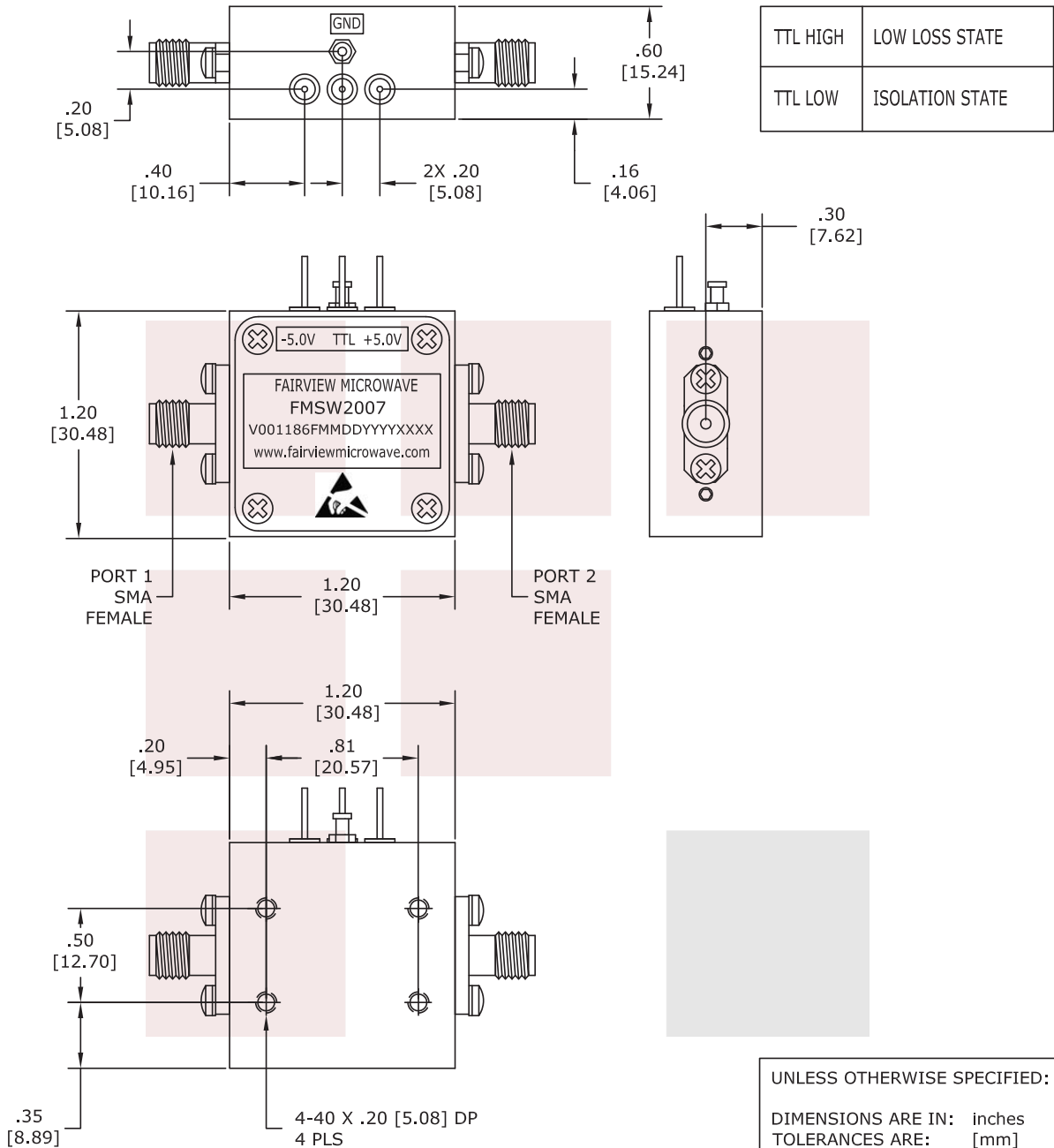


SMA PIN Diode Switch SPST From 50 MHz to 26.5 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SPST From 50 MHz to 26.5 GHz Rated at +30 dBm FMSW2007](http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-50-mhz-26.5-ghz-rated-30-dbm-fmsw2007-p.aspx)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-50-mhz-26.5-ghz-rated-30-dbm-fmsw2007-p.aspx>

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

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TITLE SMA PIN Diode Switch SPST From 50 MHz to 26.5 GHz Rated at +30 dBm	DWG NO <b>FMSW2007</b>	CAGE CODE <b>3FKR5</b>		
CAD FILE 082615	SHEET	SCALE N/A	SIZE A	2233