

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

The FMSW2015 is an SPST REFLECTIVE PIN DIODE SWITCH that operates over a wide frequency band from 2 to 26.5 GHz. Typical performance includes insertion loss of 3dB, return loss of -10dB, 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	2		26.5	GHz
Impedance		50		Ohms
Return Loss		-10	-5	dB
Insertion Loss		3	4.5	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 1.5 in [38.1 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
- 2 GHz to 26.5 GHz
- Insertion Loss 3 dB typ
- Isolation 20 dB min
- Power Input +30 dBm CW max

Applications:

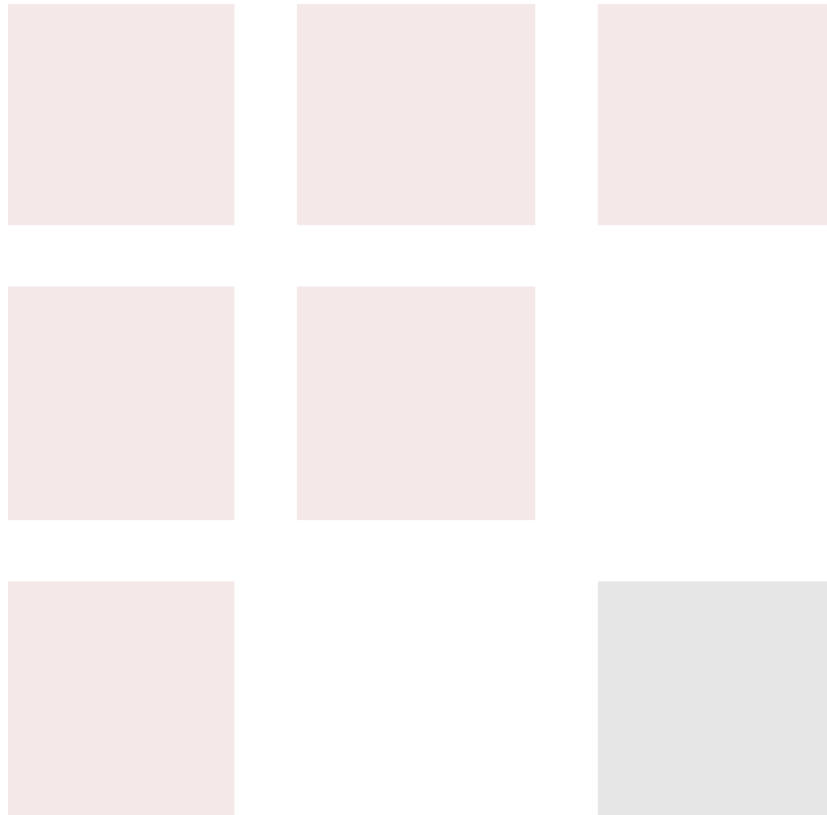
- Test & Measurement
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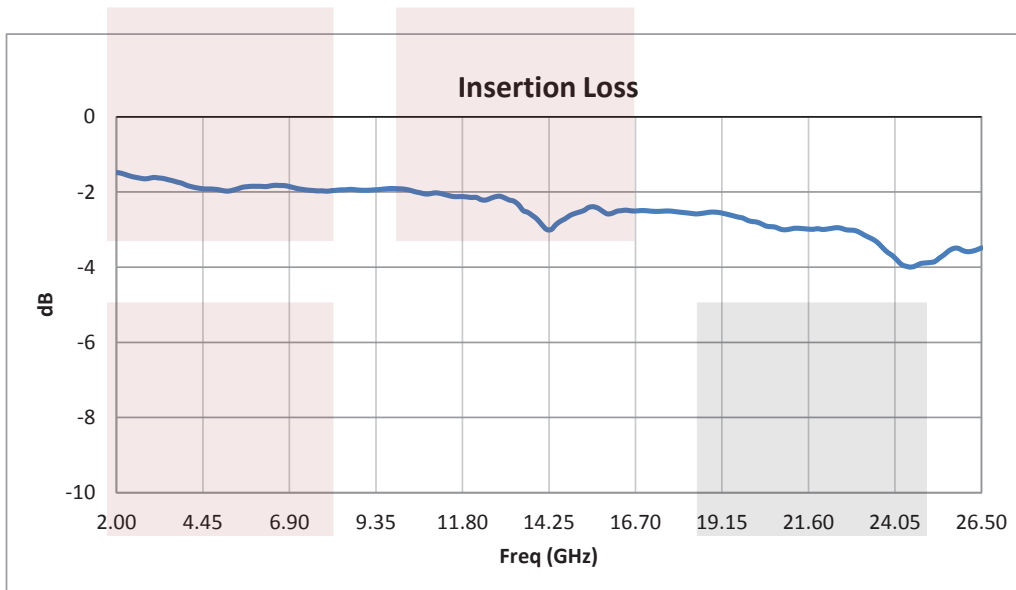
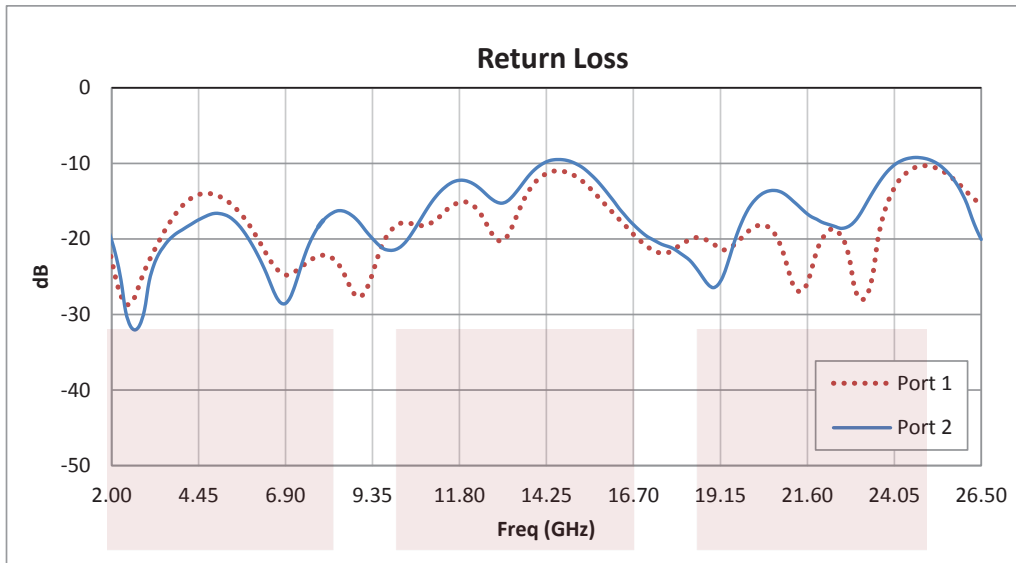
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

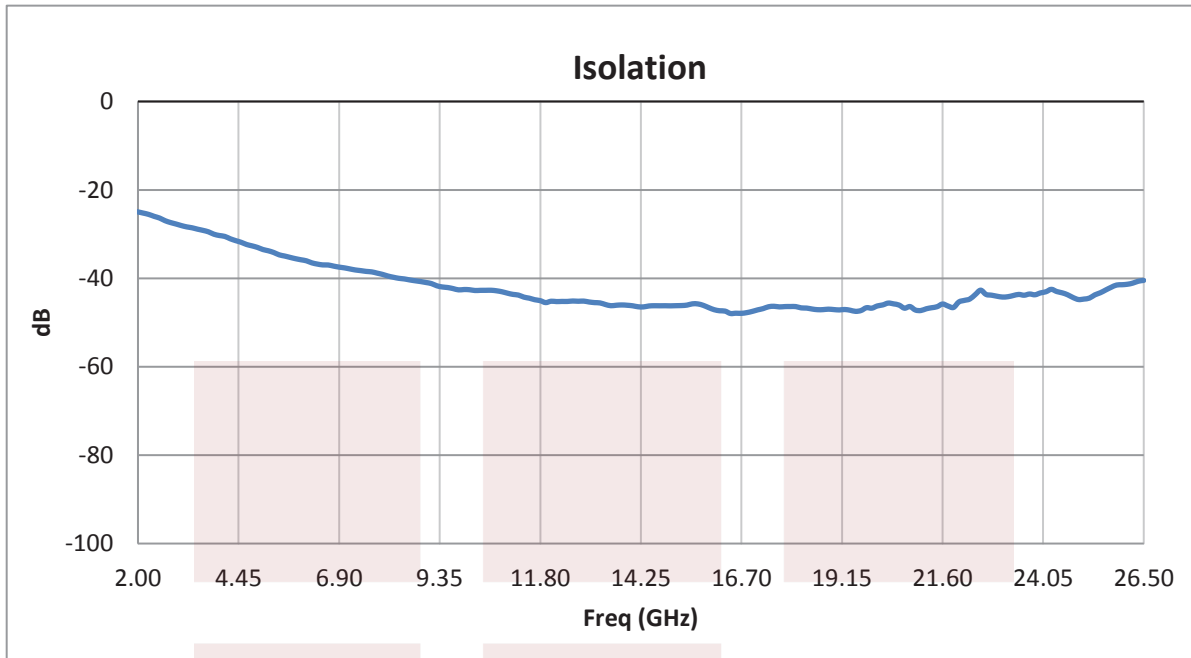
Plotted and Other Data

Notes:



Typical Performance Data



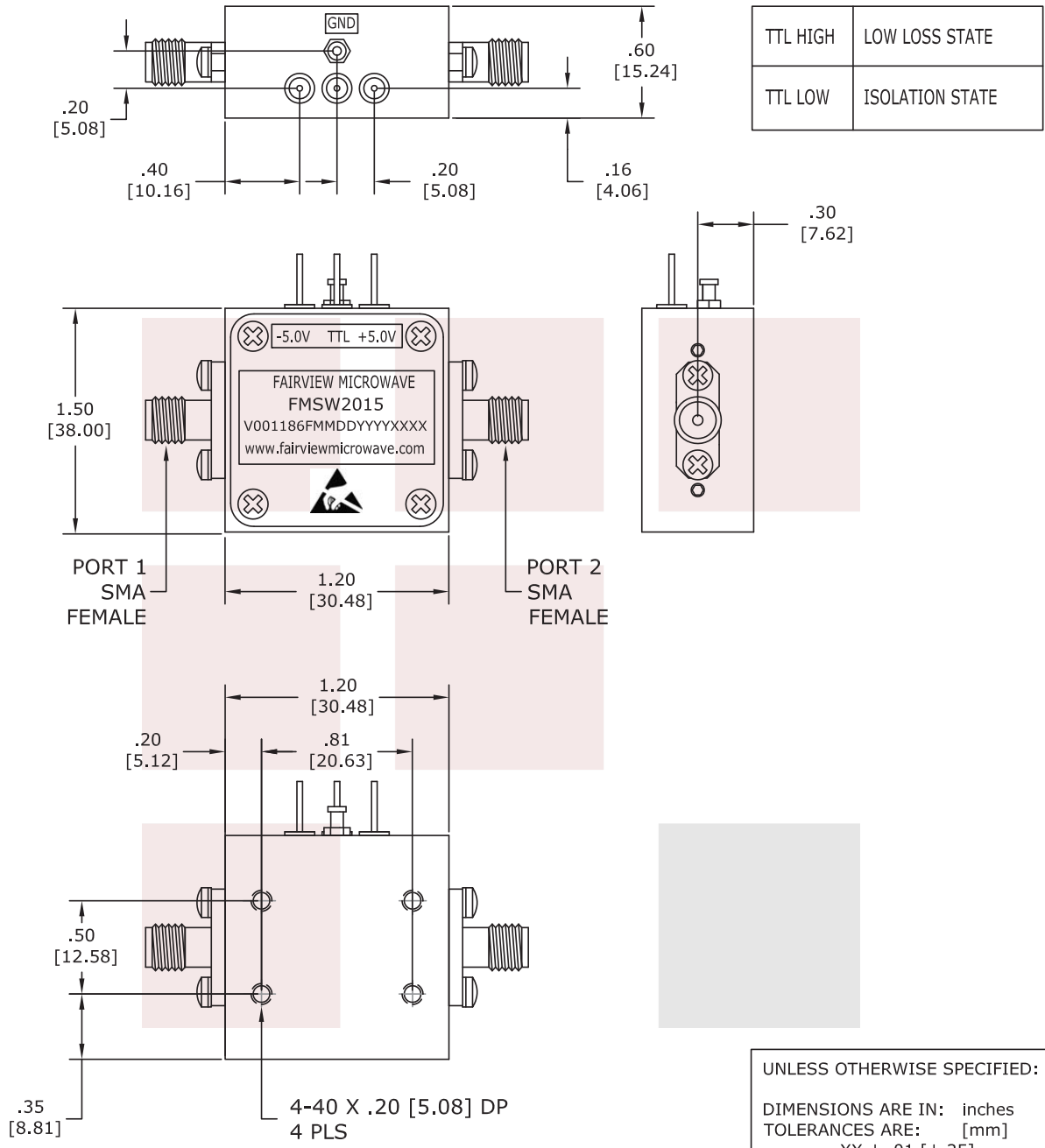


SMA PIN Diode Switch SPST From 2 GHz to 26.5 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

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 FMSW2015](#)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-2-26.5-ghz-rated-30-dbm-fmsw2015-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 FMSW2015	CAGE CODE 3FKR5		
CAD FILE 081815	SHEET	SCALE N/A	SIZE A	2233