

2.92mm PIN Diode Switch SPST From 50 MHz to 40 GHz Rated at +30 dBm

The FMSW2012 is an SPST ABSORPTIVE PIN DIODE SWITCH that operates over a wide frequency band from 0.05 to 40 GHz. Port 2 is terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes max. insertion loss of 7.5dB, max return loss of -5dB, 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 2.92mm female connectors.

Electrical Specifications

TTL Control Logic

Off/Isolation: 0
On/Low Loss: 1

Description	Min	Typ	Max	Units
Frequency Range	0.05		40	GHz
Impedance		50		Ohms
Return Loss			-5	dB
Insertion Loss			7.5	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	2.92mm 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
- 0.05 GHz to 40 GHz
- Insertion Loss 7.5 dB max
- Isolation 25 dB min
- Power Input +30 dBm CW max

Applications:

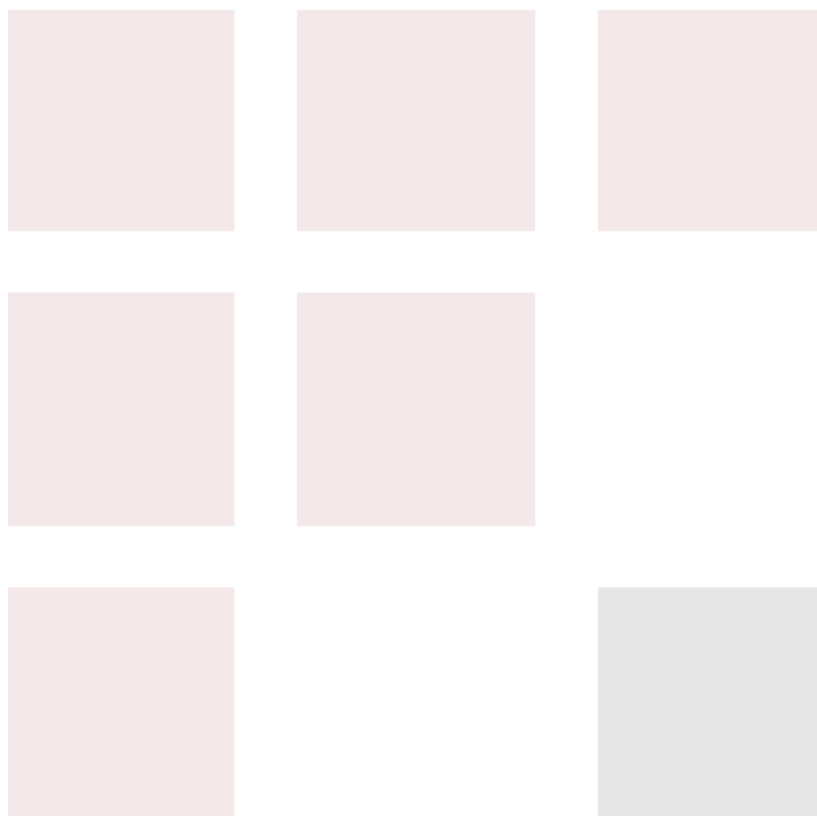
- Test & Measurement
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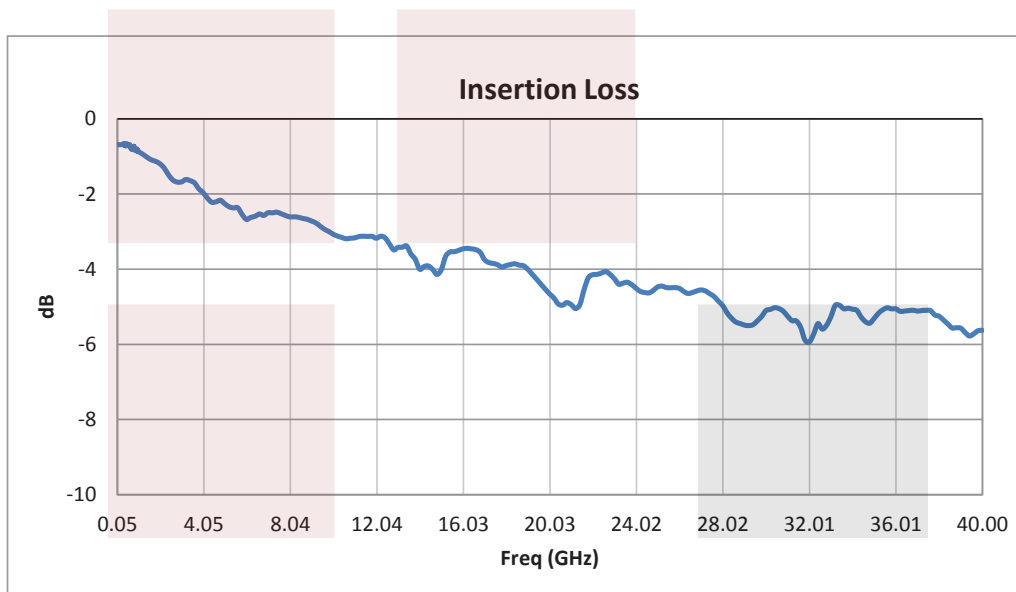
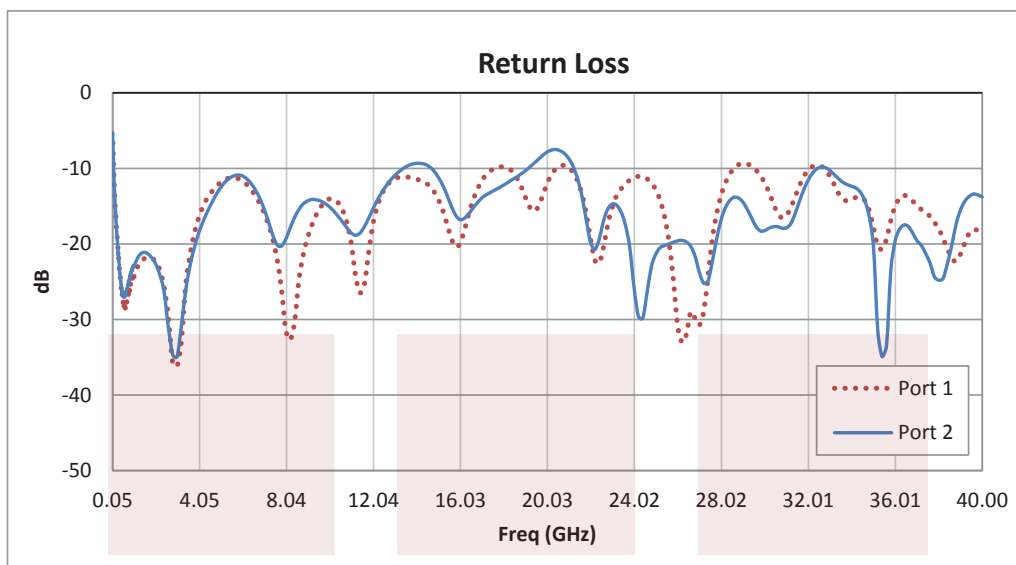
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

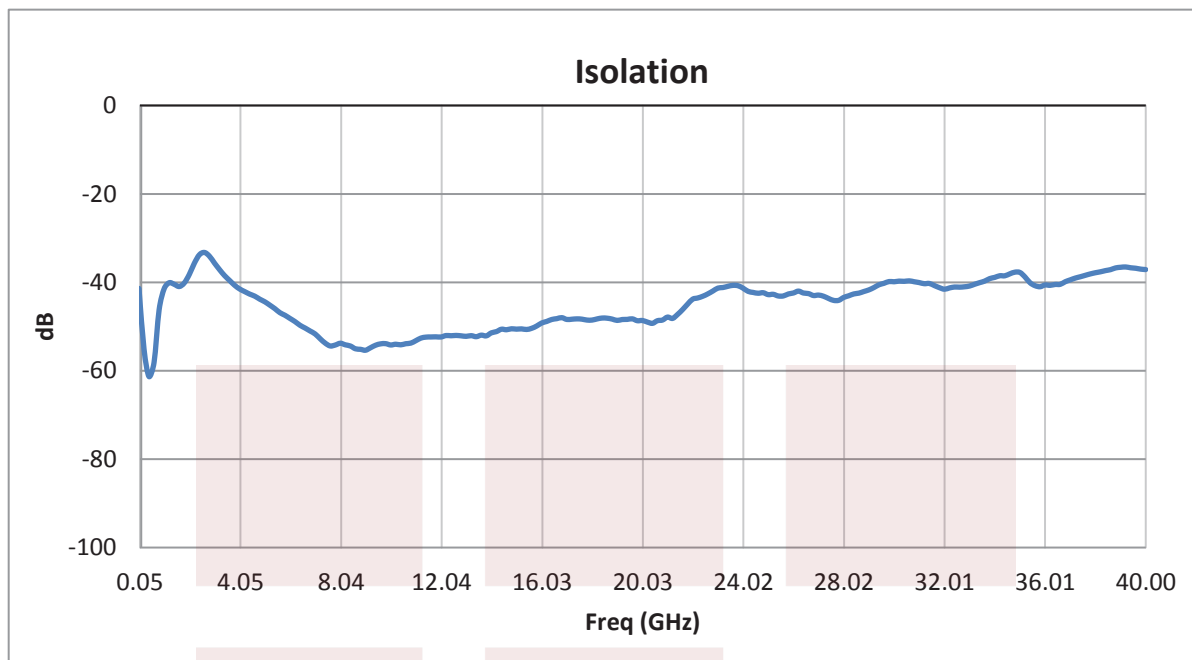
Plotted and Other Data

Notes:



Typical Performance Data



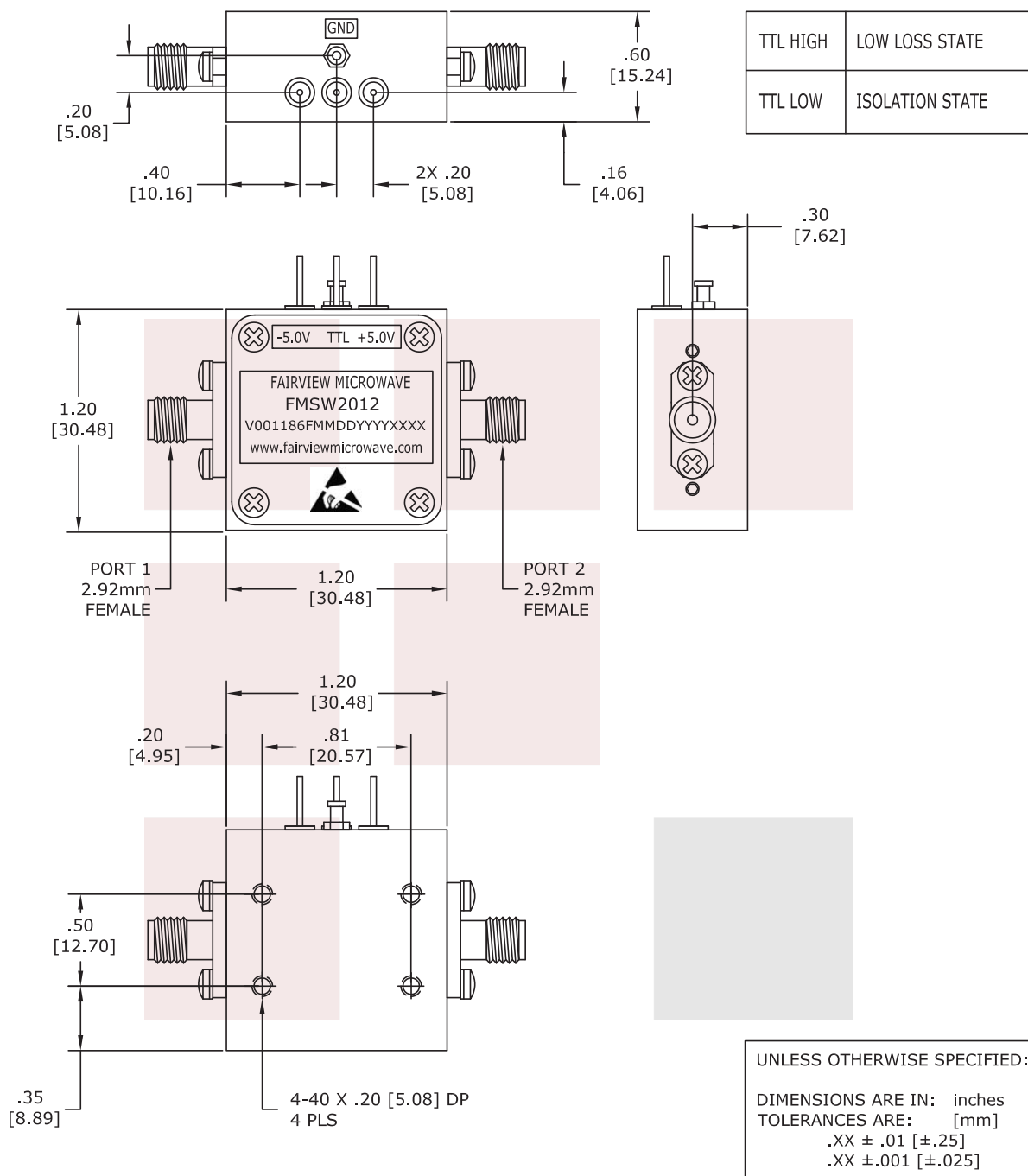


2.92mm PIN Diode Switch SPST From 50 MHz to 40 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.92mm PIN Diode Switch SPST From 50 MHz to 40 GHz Rated at +30 dBm FMSW2012](http://www.fairviewmicrowave.com/2.92mm-pin-diode-switch-spst-50-mhz-40-ghz-rated-30-dbm-fmsw2012-p.aspx)

URL: <http://www.fairviewmicrowave.com/2.92mm-pin-diode-switch-spst-50-mhz-40-ghz-rated-30-dbm-fmsw2012-p.aspx>

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

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TITLE 2.92mm PIN Diode Switch SPST From 50 MHz to 40 GHz Rated at +30 dBm					DWG NO FMSW2012		CAGE CODE 3FKR5		
CAD FILE 082615		SHEET		SCALE N/A		SIZE A		2233	