

WR-12 Waveguide PIN Diode SPST Switch
60 GHz to 90 GHz Frequency Range E
Band Using a UG387/U Flange

FMSW9001 is a SPST Reflective Switch designed to operate over the 60.0 GHz to 90.0 GHz Frequency Range. The switch is designed to maintain low insertion loss, high isolation, and fast switching speed.

Electrical Specifications

Design

Reflective, SPST

RF Characteristics (TA = +25°C, Vdc1=5V/20mA, Vdc2=-5V/20mA)

Description	Min	Typ	Max	Units
Frequency Range	60		90	GHz
Insertion Loss			4.5	dB
Isolation	20			dB
Switching Time			300	ns
Voltage Supply 1		5		V
Voltage Supply 2		-5		V
Current @5 V		20		mA
Current @-5 V		20		mA

Mechanical Specifications

Size

Length	2.57 in [65.28 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]

Configuration

Control Connector	SMA Female
Waveguide Size	WR-12
Flange Type	UG387/U

Environmental Specifications

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

Notes:



Features:

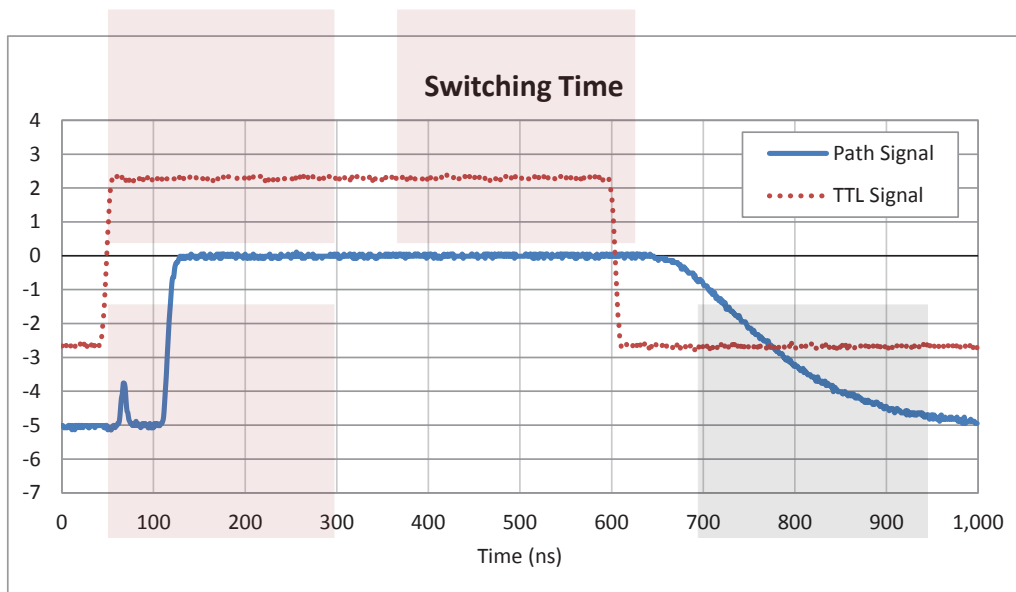
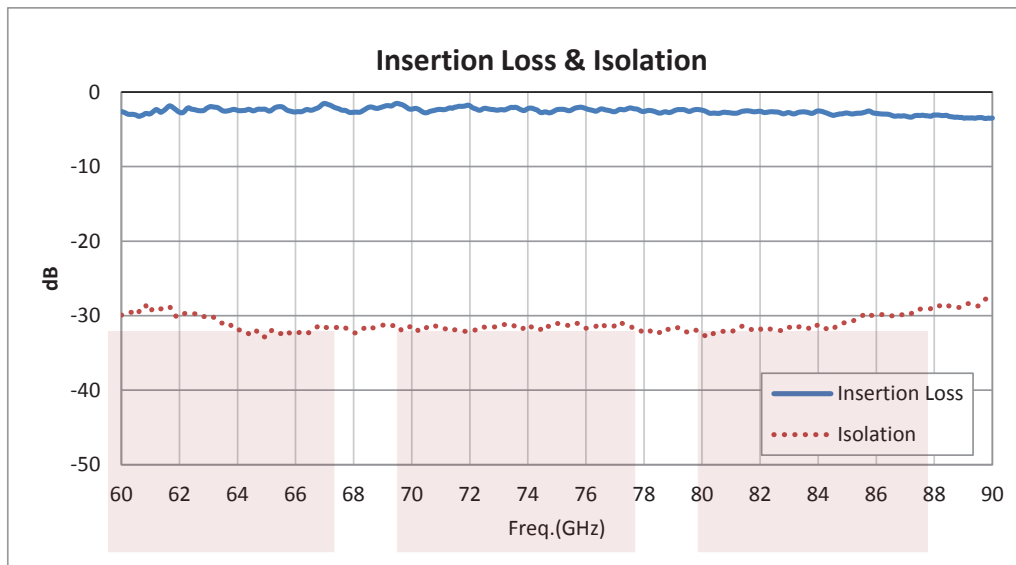
- SPST Reflective Switch
- 60.0 GHz to 90.0 GHz
- Insertion Loss 4.5 dB max
- Isolation 20 dB min

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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Typical Performance Data



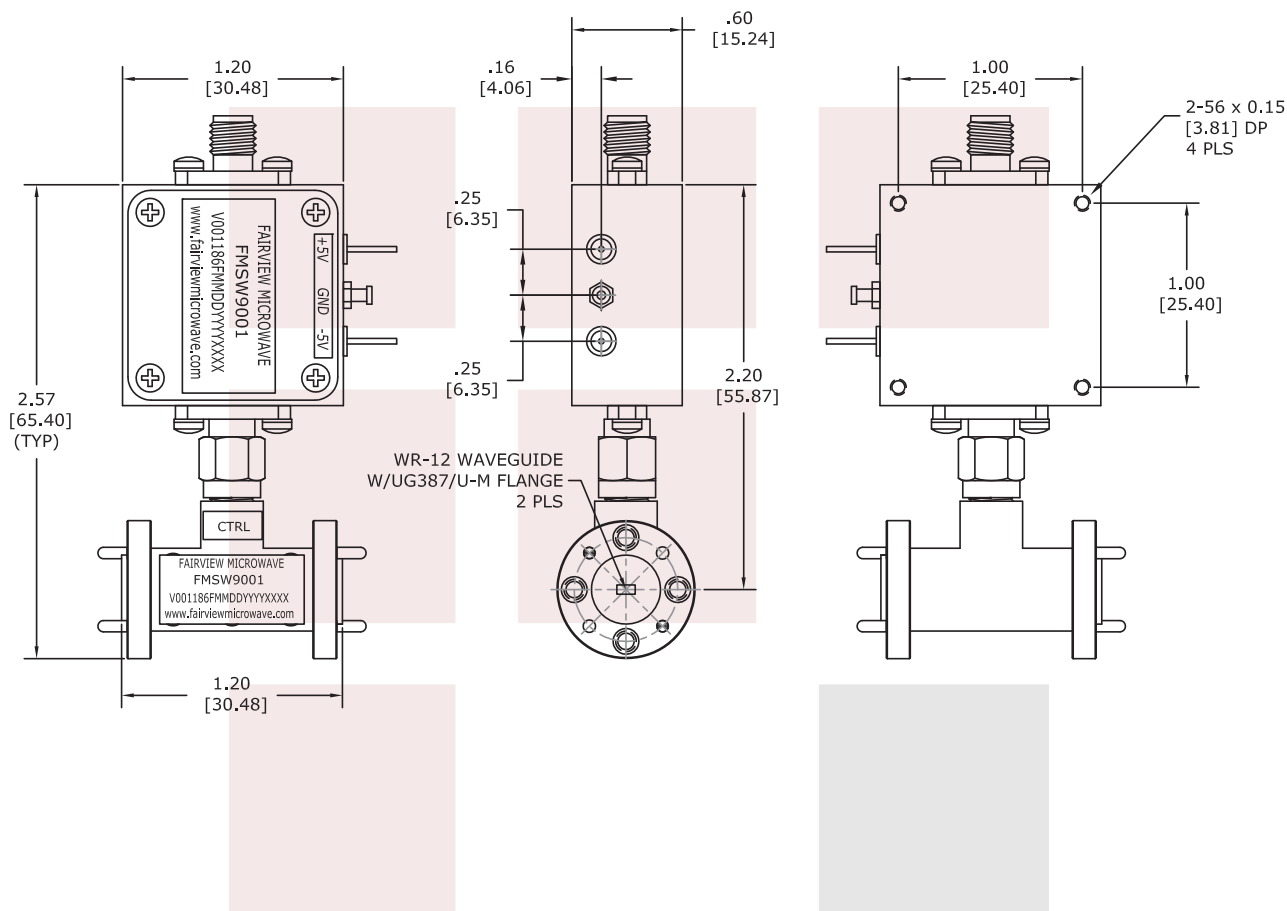
WR-12 Waveguide PIN Diode SPST Switch 60 GHz to 90 GHz Frequency Range E Band Using a UG387/U Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-12 Waveguide PIN Diode SPST Switch 60 GHz to 90 GHz Frequency Range E Band Using a UG387/U Flange FMSW9001](http://www.fairviewmicrowave.com/wr-12-waveguide-pin-diode-spst-switch-90-ghz-e-band-fmsw9001-p.aspx)

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

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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE WR-12 Waveguide PIN Diode SPST Switch 60 GHz to 90 GHz Frequency Range E Band Using a UG387/U Flange		DWG NO FMSW9001		CAGE CODE 3FKR5	
CAD FILE	113015	SHEET	SCALE	N/A	SIZE A 2233