

WR-10 Waveguide PIN Diode SPDT Switch 75 GHz to 110 GHz Frequency Range W Band Using a UG-387/U Flange

FMSW9004 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch designed to operate over the 75 GHz to 110 GHz Frequency Range. Electrical performance includes 5.5 dB typ insertion loss, 20 dB min isolation, and 300 nsec max switching speed. The design incorporates TTL-compatible driver circuitry for accurate logic control and dual voltage controls of +5 Vdc and -5 Vdc are required. The package interface uses solder terminals and SMA Female control connector and WR-10 Round Cover UG-387/U Flange.

Electrical Specifications

Design

SPDT, Reflective

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

Description	Min	Typ	Max	Units
Frequency Range	75		110	GHz
Insertion Loss		5.5	7	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	2.83 in [71.88 mm]
Width	1.2 in [30.48 mm]
Height	0.75 in [19.05 mm]
Weight	0.213 lbs [96.62 g]

Configuration

Control Connector	SMA Female
Waveguide Size	WR-10
Flange Type	UG-387/U

Environmental Specifications

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

REACH Compliant

12/17/2015

Plotted and Other Data

Notes:



Features:

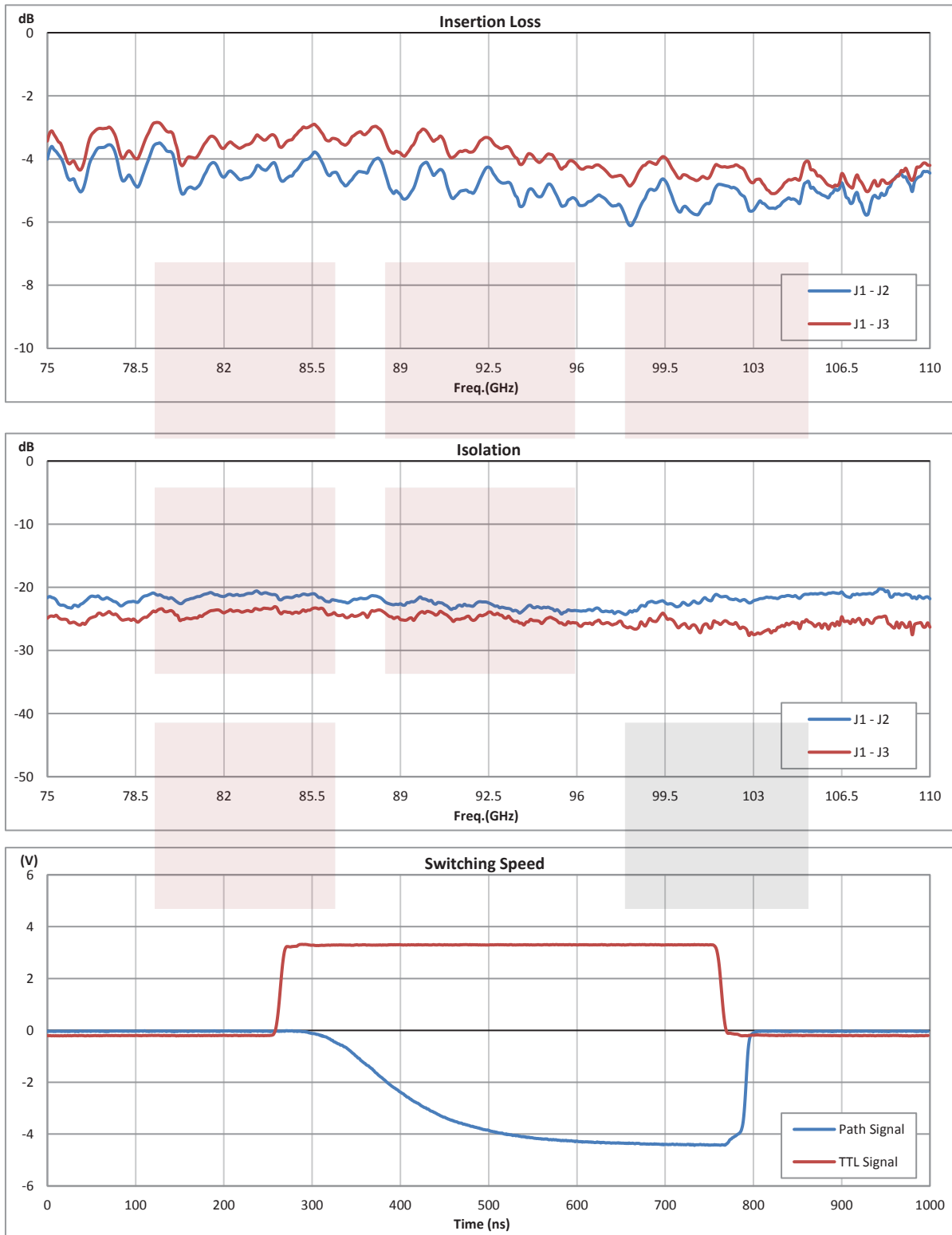
- SPDT Reflective Switch
- 75.0 GHz to 110.0 GHz
- W Band
- Insertion Loss 5.5 dB typ
- Isolation 20 dB min

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication
- Military Electronic Systems
- RF Test Stations

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Typical Performance Data



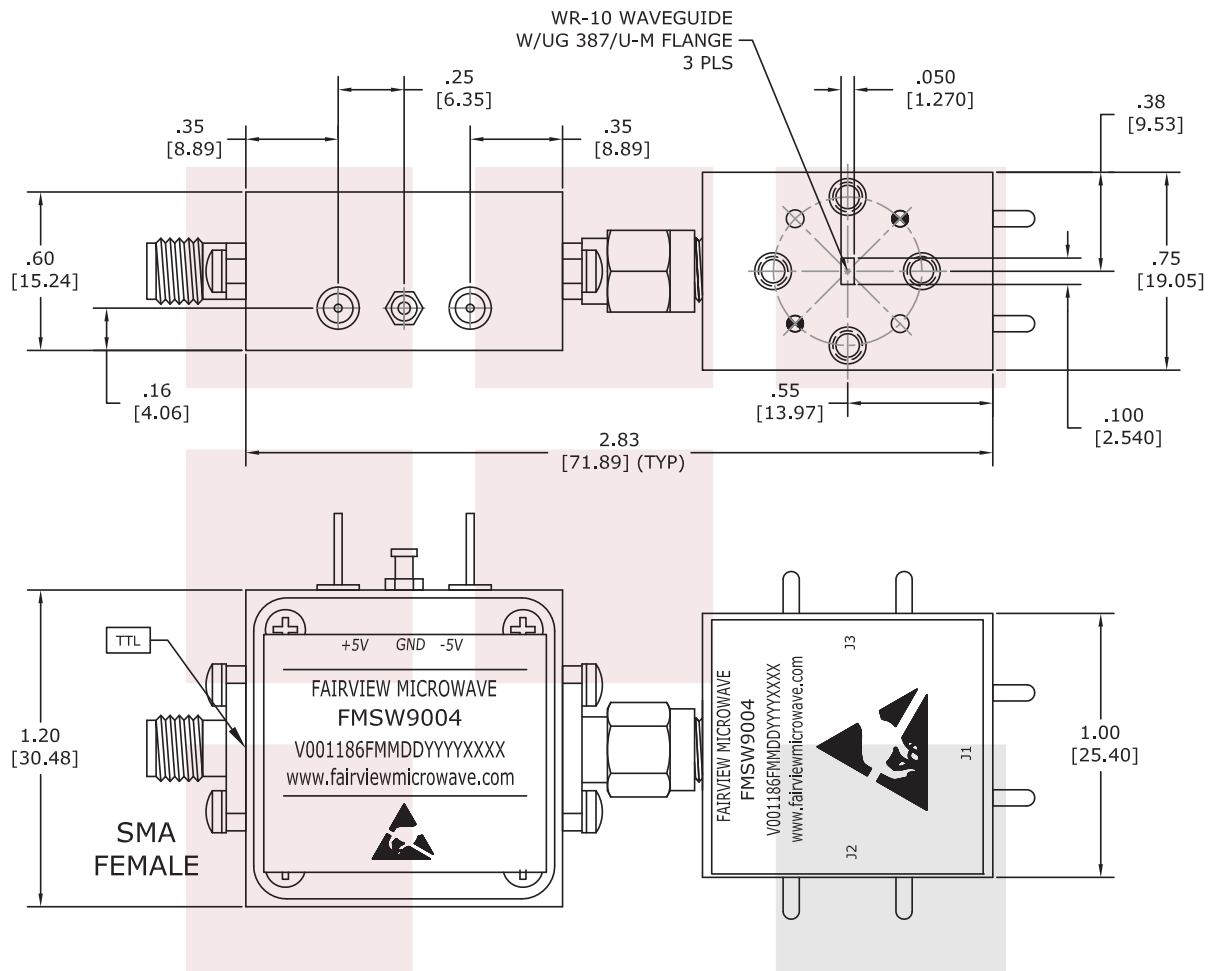
WR-10 Waveguide PIN Diode SPDT Switch 75 GHz to 110 GHz Frequency Range W Band Using a UG-387/U Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-10 Waveguide PIN Diode SPDT Switch 75 GHz to 110 GHz Frequency Range W Band Using a UG-387/U Flange FMSW9004](http://www.fairviewmicrowave.com/wr-10-waveguide-pin-diode-spd-t-switch-110-ghz-w-band-fmsw9004-p.aspx)

URL: <http://www.fairviewmicrowave.com/wr-10-waveguide-pin-diode-spd-t-switch-110-ghz-w-band-fmsw9004-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN: inches [mm]
TOLERANCES ARE:
DECIMALS ANGLES FRACTIONS
.XX ±.01 ±1/2° ± 1/64
[±.25] [± 127/320]
.XXX ±.005
[±.127]

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

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TITLE WR-10 Waveguide PIN Diode SPDT Switch 75 GHz to 110 GHz Frequency Range W Band Using a UG-387/U Flange		DWG NO FMSW9004		CAGE CODE 3FKR5	
CAD FILE	051816	SHEET	SCALE	N/A	SIZE A 2233