



WR-12 Waveguide PIN Diode SPDT Switch 60 GHz to 90 GHz Frequency Range E Band Using a UG-387/U Flange

FMSW9002 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch designed to operate over the 60 GHz to 90 GHz Frequecny Range. Electrical performance includes 4.5 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-12 Round Cover UG-387/U Flange.

Electrical Specifications

Design SPDT, Reflective

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

Description	Min	Тур	Max	Units
Frequency Range	60		90	GHz
Insertion Loss		4.5	6	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
 0.2044 lbs [92.71 g]

ConfigurationSMA FemaleControl ConnectorSMA FemaleWaveguide SizeWR-12Flange TypeUG-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
- 60 GHz to 90 GHz
- E Band
- Insertion Loss 4.5 dB typ
- Isolation 20 dB min

Applications:

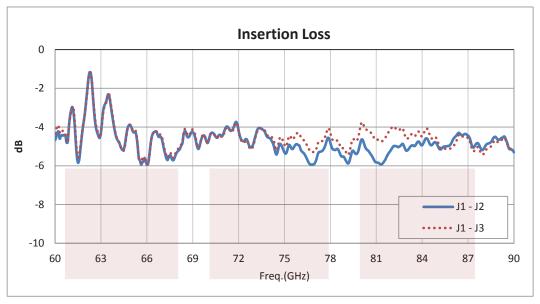
- · Test & Measurement
- Military Communication
- Commercial Communication
- Military Electronic Systems
- RF Test Stations

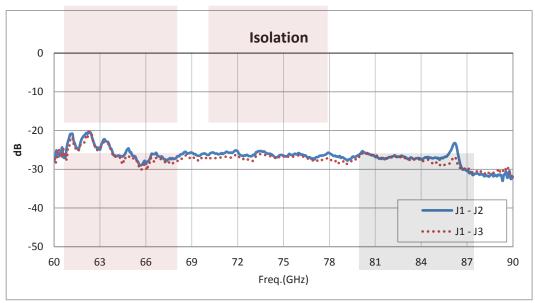
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





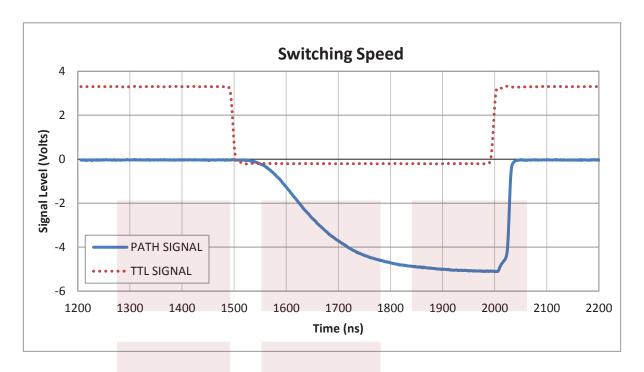
Typical Performance Data











WR-12 Waveguide PIN Diode SPDT Switch 60 GHz to 90 GHz Frequency Range E 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.

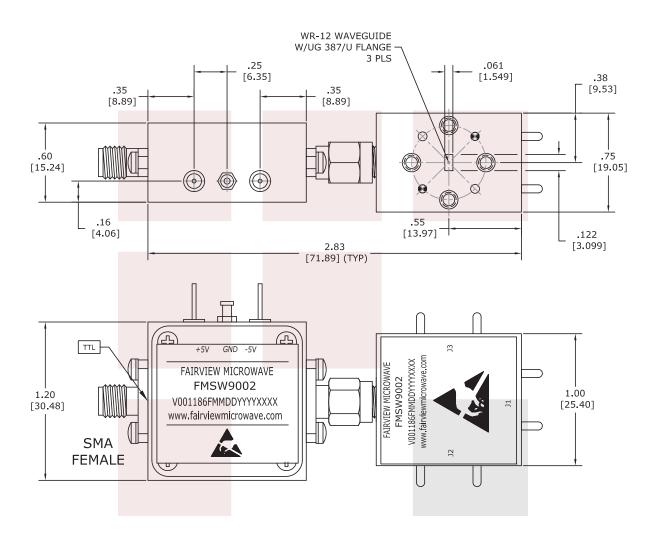
For additional information on this product, please click the following link: WR-12 Waveguide PIN Diode SPDT Switch 60 GHz to 90 GHz Frequency Range E Band Using a UG-387/U Flange FMSW9002

URL: https://www.fairviewmicrowave.com/wr-12-waveguide-pin-diode-spdt-switch-90-ghz-e-band-fmsw9002-p.aspx

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

^{*} 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].					
WR-12 Waveguide PIN Diode SPDT Switch 60 GHz to 90 GHz Frequency Range E Band Using a UG-387/U Flange	DWG NO FMSW9002			CAGE CODE 3FKR5		
	CAD FILE 042516	SHEET	SCALI	E N/A	SIZE A	2233