



SMA SPDT PIN Diode Switch From 20 MHz to 500 MHz Rated at 150 Watts

The FMSW2039 is a single pole double throw (SPDT) PIN diode switch that operates over the frequency range of 20 MHz to 500 MHz. The 50 ohm design supports TTL control logic and is rated up to 150 watt average RF input power. Typical performance includes 0.5 dB insertion loss and greater than 50 dB isolation. Switching speed is 40 microseconds with 1.4:1 typical VSWR and an operating voltage of +15 Vdc with 250 mA nominal current. The rugged package design supports SMA Female RF input/output connectors. The Switch design is highly reliable with an operational temperature of -20°C to +70°C.

Electrical	Specification	S
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TTL Control Logic

Off/Isolation: "0" 0 to V

On/Low Loss: "1"

Min	Тур	Max	Units
20		500	MHz
	50		Ohms
		1.4:1	
		0.5	dB
50			dB
		40	μs
		150	Watts
ge	15		Vdc
	250		mA
-20		+70	deg C
	20 50 ge	20 50 50 ge 15 250	20 500 50 1.4:1 0.5 50 40 150 ge 15

Mechanical Specifications

Design RF Connector Reflective, SPDT SMA Female

Environmental Specifications

Temperature

Operating Range -20 to +70 deg C Storage Range -55 to +85 deg C

ESD Sensitivity

ESD Sensitive Material. Transport material in Approved ESD bags. Handle only in ESD Workstation.



Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- SPDT High Power PIN Diode Switch
- 150 watt (CW)
- Reflective Design
- 20 to 500 MHz Bandwidth
- Insertion loss: 0.5 dB max
- Isolation: 50 dB min
- 50 Ohms
- Switching Speed: 40 microseconds
- DC voltage: +15 Vdc
- SMA female connectors
- TTL Control Logic

Applications:

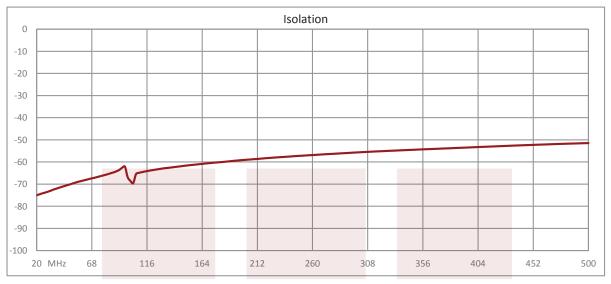
- · Electronic Warfare
- Test & Measurement
- Military and Wireless Communications Systems
- Military & Space
- Radar

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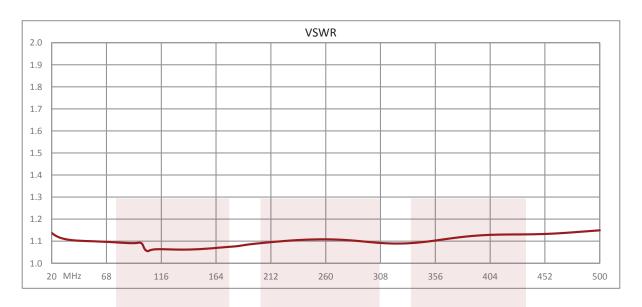
Typical Performance Data











SMA SPDT PIN Diode Switch From 20 MHz to 500 MHz Rated at 150 Watts 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.

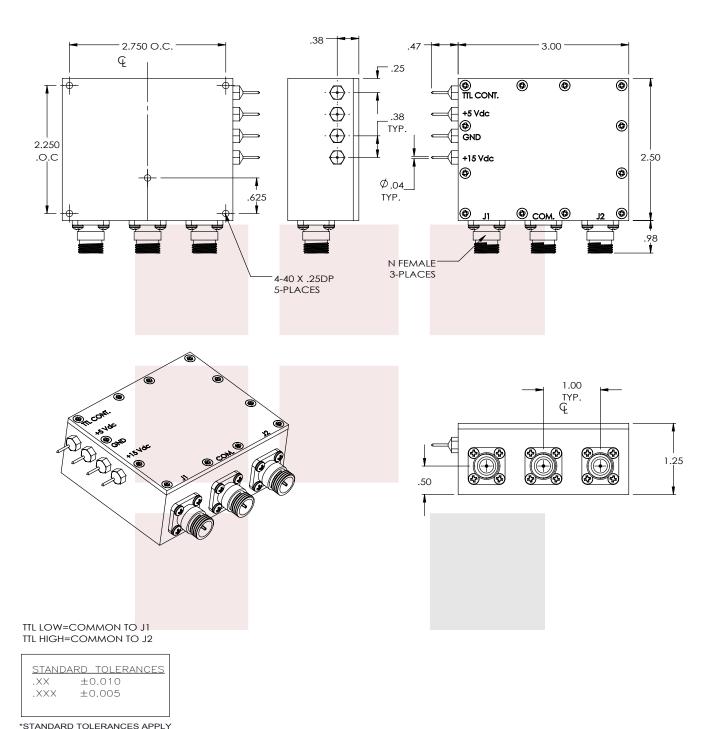
For additional information on this product, please click the following link: SMA SPDT PIN Diode Switch From 20 MHz to 500 MHz Rated at 150 Watts FMSW2039

URL: https://www.fairviewmicrowave.com/sma-spdt-pin-diode-switch-500-mhz-150-watts-fmsw2039-p.aspx

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ONLY TO DIMENSIONS IN INCHES

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TITLE	DWG NO FMSW2039			cage code 3FKR5		
SMA SPDT PIN Diode Switch From 20 MHz to 500 MHz Rated at 150 Watts	CAD FILE 05/26/17	SHEET	SCAL	E N/A	SIZE A	1408