



# SMA SPDT PIN Diode Switch From 100 MHz to 500 MHz Rated at 250 Watts

The FMSW2038 is a single pole double throw (SPDT) PIN diode switch that operates over the frequency range of 100 MHz to 500 MHz. The 50 ohm design supports TTL control logic and is rated up to 250 watt average RF input power. Typical performance includes 0.5 dB insertion loss and greater than 55 dB isolation. Switching speed is 40 microseconds with 1.25:1 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.

TTL Control Logic

Off/Isolation: "0" 0 to V

On/Low Loss: "1"

Description	Min	Тур	Max	Units
Frequency Range	100		500	MHz
Impedance		50	Ohn	
VSWR			1.25:1	
Insertion Loss			0.5	dB
Isolation	55			dB
Switching Time			40	μs
Input Power (CW)			250	Watts
Input Power (Peak)			500	Watts
1 µsec Pules Width				
Positive Operating Voltage		15		Vdc
Current @ 15 Vdc		250		mA
Operating Temperature	-20		+70	deg C

### **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
- 250 watt (CW)
- 100 to 500 MHz Bandwidth
- Insertion loss: 0.5 dB max
- Isolation: 55 dB min
- 50 Ohms
- Switching Speed: 40 microseconds
- DC voltage: +15 Vdc
- SMA female connectors
- TTL Control Logic

## Applications:

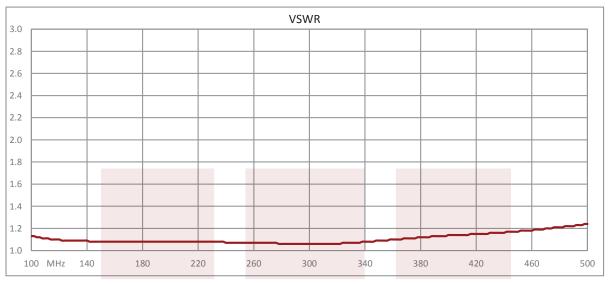
- Electronic Warfare
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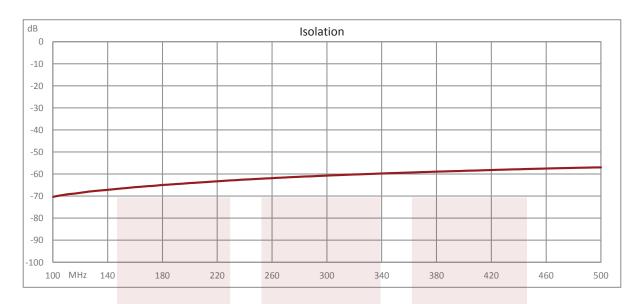
#### **Typical Performance Data**











SMA SPDT PIN Diode Switch From 100 MHz to 500 MHz Rated at 250 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.

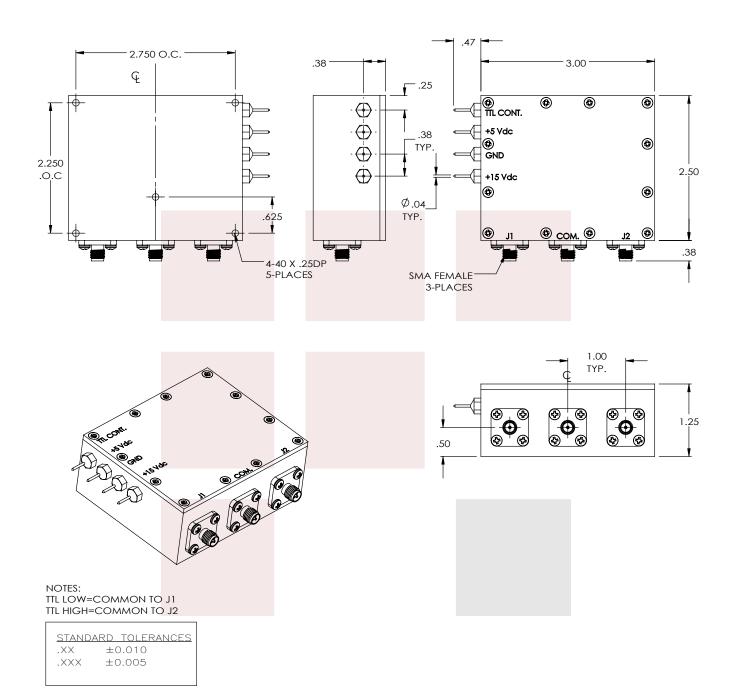
For additional information on this product, please click the following link: SMA SPDT PIN Diode Switch From 100 MHz to 500 MHz Rated at 250 Watts FMSW2038

URL: https://www.fairviewmicrowave.com/sma-spdt-pin-diode-switch-500-mhz-250-watts-fmsw2038-p.aspx

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\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE	DWG NO FMSW2038			CAGE CODE 3FKR5			
SMA SPDT PIN Diode Switch From 100 MHz to 500 MHz Rated at 250 Watts	<b>CAD FILE</b> 052917	SHEET	SCAL	E N/A	SIZE A	1408	