



# SMA SPDT PIN Diode Switch Absorptive From 5 MHz to 3 GHz Rated at +30 dBm

The FMSW2036 is a single pole double throw (SPDT) terminated PIN diode switch that operates over the frequency range of 5 MHz to 3000 MHz. The 50 ohm design supports TTL control logic and is rated up to 1 watt average RF input power. Typical performance includes 2.5 dB insertion loss and greater than 60 dB isolation. Switching speed is 10 microseconds with 1.5:1 typical VSWR and an operating voltage of +24 Vdc with 50 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  $0^{\circ}$ C to  $+70^{\circ}$ C.



TTL Control Logic Off/Isolation: "0" 0 to 0.8 V On/Low Loss: "1" 2 to 5 V

Description	Min Typ		Max	Units	
Frequency Range	0.005		3	GHz	
Impedance		50		Ohms	
VSWR		1.3:1	1.5:1		
Insertion Loss		2.5	3.5	dB	
Insertion Loss Repeatab	ility		0.05	dB	
Switching Time			10	μs	
Input Power (CW)			1	Watts	
Positive Operating Voltage	ge	24		Vdc	
Current @ 24 Vdc		50		mA	
Operating Temperature	0		+70	deg C	

#### **Performance by Frequency**

05 to 1	1 to 2	2 to 3		GHz
80	70	60		dB
(		05 to 1 1 to 2 80 70		

### **Mechanical Specifications**

Design Absorptive, SPDT RF Connector SMA Female

## **Environmental Specifications Temperature**

Operating Range Storage Range 0 to +70 deg C -55 to +90 deg C

**ESD Sensitivity** 

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



### Features:

- SPDT PIN Diode Switch
- Terminated
- 5 to 3000 MHz Bandwidth
- Insertion loss: 2.5 dB max
- · Isolation: 60 dB min
- 50 Ohms
- Switching Speed: 10 microseconds
- DC voltage: +24 VdcSMA female connectors
- TTL Control Logic

### Applications:

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



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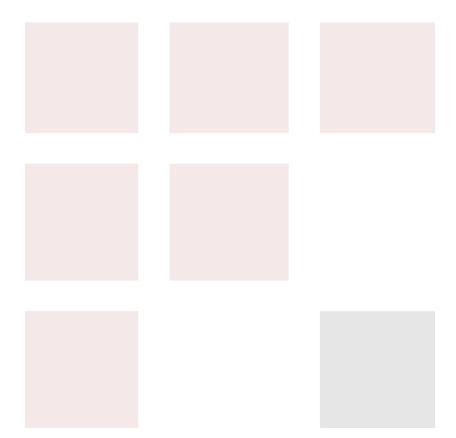




**Compliance Certifications** (see product page for current document)

**Plotted and Other Data** 

Notes:







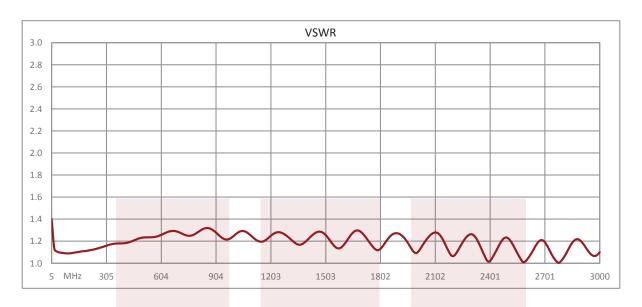
### **Typical Performance Data**











SMA SPDT PIN Diode Switch Absorptive From 5 MHz to 3 GHz Rated at +30 dBm 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.

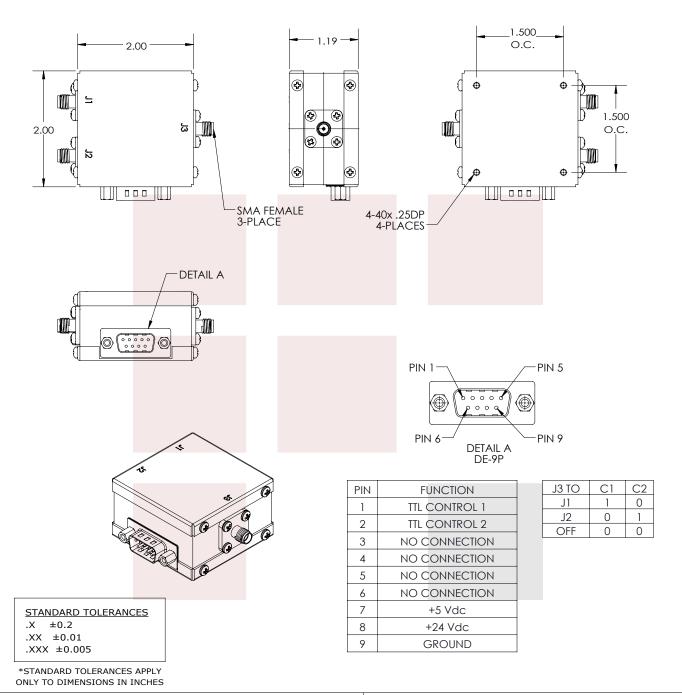
For additional information on this product, please click the following link: SMA SPDT PIN Diode Switch Absorptive From 5 MHz to 3 GHz Rated at +30 dBm FMSW2036

URL: https://www.fairviewmicrowave.com/sma-spdt-pin-diode-switch-absorptive-3-ghz-30-dbm-fmsw2036-p.aspx

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TITLE	DWG NO FMSW2036		CAGE CODE 3FKR5				
SMA SPDT PIN Diode Switch Absorptive From 5 MHz	CAD FILE 052617	SHEET	SCAL	E N/A	SIZE A	CN 0157	