



75 Ohm F SPDT PIN Diode Switch Absorptive From 5 MHz to 2.15 GHz Rated at +20 dBm

The FMSW2043 is a single pole double throw (SPDT) terminated PIN diode switch that operates over the frequency range of 5 MHz to 2150 MHz. The 75 ohm design supports TTL control logic and is rated up to watt average RF input power. Typical performance includes 1.5 dB insertion loss and greater than 70 dB isolation. Switching speed is 40 microseconds with 1.4:1 typical VSWR and an operating voltage of +12 Vdc with 150 mA nominal current. The rugged package design supports F Female RF input/output connectors. The Switch design is highly reliable with an operational temperature of 0° C to $+70^{\circ}$ C.

Electrical Specifications

TTL Control Logic

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

Description	Min	Тур	Max	Units
Frequency Range	0.005		2.15	GHz
Impedance		75		Ohms
VSWR		1.25:1	1.4:1	
Insertion Loss		1.5	2.5	dB
Isolation	70	80		dB
Switching Time			100	μs
Input Power (CW)			0.1	Watts
Positive Operating Voltage	ge	12		Vdc
Current @ 12 Vdc		150		mA
Operating Temperature	0		+70	deg C

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range0	.005 to 0	10.1 to 2.	15			GHz
Power (CW), Max	0.01	0.1				Watts

Mechanical Specifications

Design Absorptive, SPDT RF Connector F 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 2150 MHz Bandwidth
- Insertion loss: 2.5 dB max
- Isolation: 70 dB min
- 50 Ohms
- Switching Speed: 10 microseconds
- DC voltage: +12 Vdc
- F type female connectors
- TTL Control Logic

Applications:

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

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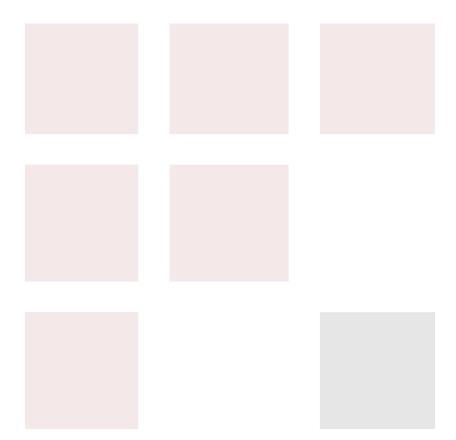




Compliance Certifications (see product page for current document)

Plotted and Other Data

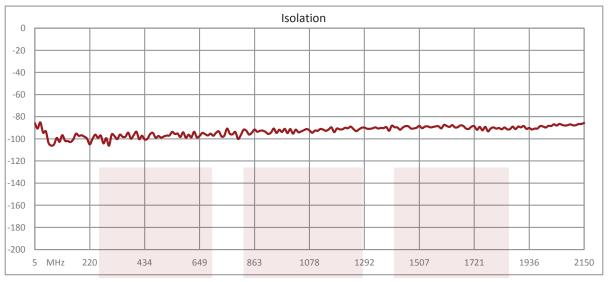
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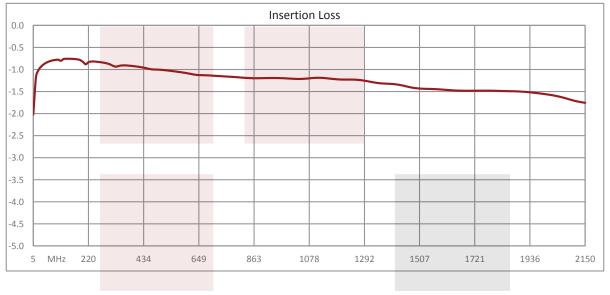






Typical Performance Data











75 Ohm F SPDT PIN Diode Switch Absorptive From 5 MHz to 2.15 GHz Rated at +20 dBm from Fairview Microwave is instock 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.

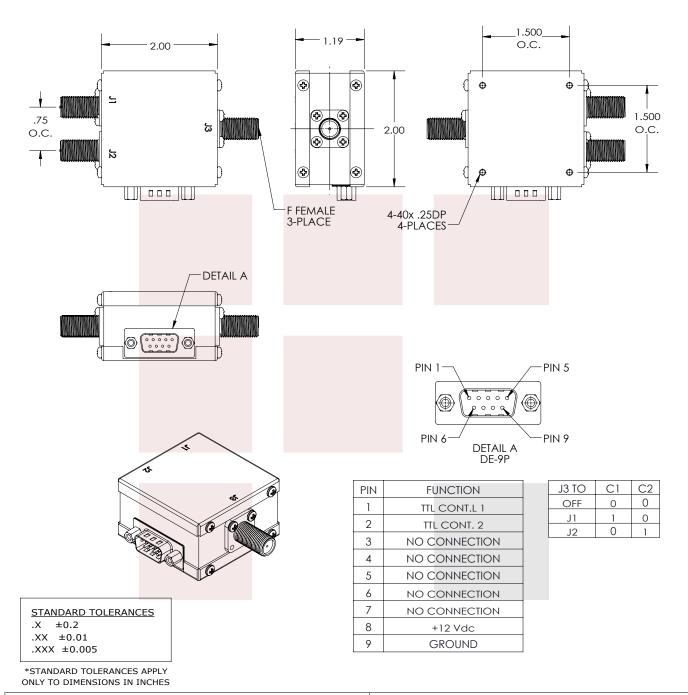
For additional information on this product, please click the following link: 75 Ohm F SPDT PIN Diode Switch Absorptive From 5 MHz to 2.15 GHz Rated at +20 dBm FMSW2043

URL: https://www.fairviewmicrowave.com/75-ohm-f-spdt-pin-diode-switch-absorptive-2.15-ghz-20-dbm-fmsw2043-p. aspx

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TITLE	FMSW2043			CAGE CODE 3FKR5		
75 Ohm F SPDT PIN Diode Switch Absorptive From 5 MHz to 2 15 GHz Rated at +20 dRm	CAD FILE 052617	SHEET	SCAL	E N/A	SIZE A	CN 0157