



SMA PIN Diode Switch SPDT From 12 GHz to 18 GHz Rated at +20 dBm

FMSW6240 is a Single Pole Double Throw (SPDT) Absorptive PIN Diode Switch that operates from 12 GHz to 18 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Outstanding performance includes 3.5 dB max insertion loss, 70 dB min isolation, and 100 nsec max switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -40°C to +85°C and dual voltage controls of +5 DC and -15 DC are required. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including humidity, shock, vibration, and temperature cycle. Package interfaces include solder terminals and female SMA connectors.



Min	Тур	Max	Units
12		18	GHz
50			Ohms
		2:1	
		3.5	dB
70			dB
		100	ns
		0.1	Watts
		1	Watts
ge	5		V
age	-15		V
	100		mA
	100		mA
-40		+85	deg C
	70 ge	12 50 70 70 ge 5 age -15 100 100	12 18 50 2:1 3.5 70 100 0.1 1 ge 5 100 100 100

Mechanical Specifications

 Length
 1 in [25.4 mm]

 Width
 1 in [25.4 mm]

 Height
 0.4 in [10.16 mm]

Finish Blue

Configuration

Design SPDT, Absorptive RF Connector SMA Female Control Connector Solder Pin

Environmental Specifications

Temperature

Operating Range -40 to +85 deg CStorage Range -55 to +125 deg C

Humidity MIL-STD-202F, Method 103B, Condi-

tion B

Shock MIL-STD-202F, Method 213B, Condi-

tion B

Vibration MIL-STD-202F, Method 204D, Condi-

tion B



Features:

- SPDT Absorptive Switch
- 12.0 GHz to 18.0 GHz
- High Speed Switching
- Insertion Loss 3.5 dB max
- Isolation 70 dB min
- Power Input 20 dBm CW max
- Field Replaceable Connectors

Applications:

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

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Altitude Temperature Cycling ESD Sensitivity MIL-STD-202F, Method 105C, Condition B
MIL-STD-202F, Method 107D, Condition A
ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



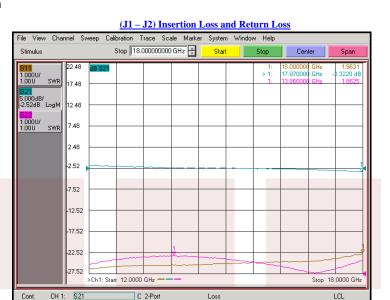
Compliance Certifications (visit www.FairviewMicrowave.com for current document) REACH Compliant 12/17/2015

Plotted and Other Data Notes:	a	





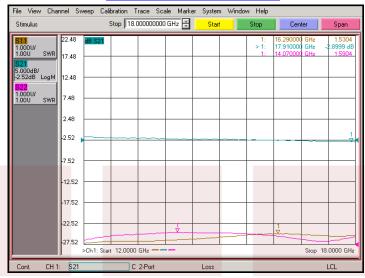
Typical Performance Data















SMA PIN Diode Switch SPDT From 12 GHz to 18 GHz Rated at +20 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.

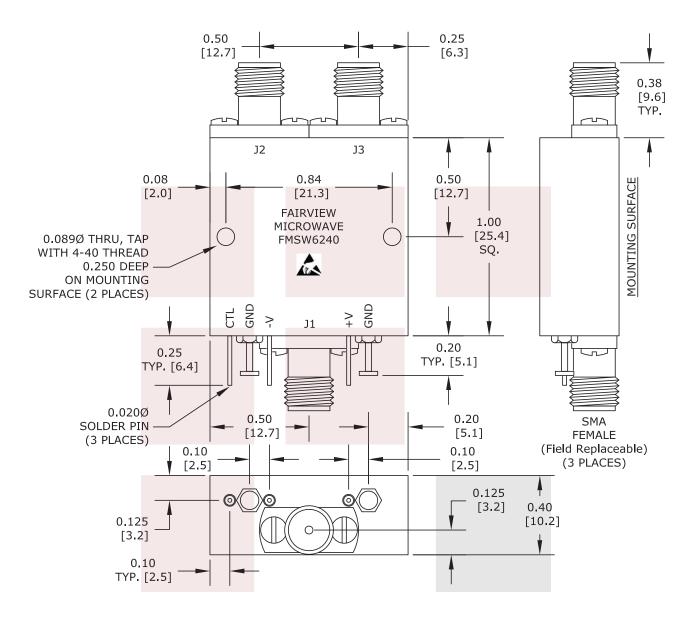
For additional information on this product, please click the following link: SMA PIN Diode Switch SPDT From 12 GHz to 18 GHz Rated at +20 dBm FMSW6240

URL: http://www.fairviewmicrowave.com/sma-pin-diode-switch-spdt-12-18-ghz-rated-20-dbm-fmsw6240-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.







LOGIC TABLE				
CTL	J1-J2	J1-J3		
0	ON	OFF		
1	OFF	ON		

ALL DIMENSIONS ARE IN INCHES. TOLERANCES: X.XX ±0.020 X.XXX ±0.010

^{*} 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].					
SMA PIN Diode Switch SPDT From 12 GHz to 18 GHz Rated at +20 dBm	DWG NO FMSW6240			CAGE CODE 3FKR5		
	CAD FILE 033016	SHEET	SCALI	E N/A	SIZE A	2233