



SMA PIN Diode Switch SP3T From 1 GHz to 2 GHz Rated at +20 dBm

FMSW6243 is a Single Pole Triple Throw (SP3T) Absorptive PIN Diode Switch that operates from 1 GHz to 2 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Outstanding typical performance includes < 1.25 dB insertion loss, > 60 dB isolation, and < 100 nsec 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.



Description	Min	Тур	Max	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Insertion Loss			1.25	dB
Isolation	60			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage	je	5		Vdc
Negative Operating Volta	age	-15		Vdc
Current @ 5 Vdc		150		mA
Current @ -15 Vdc		100		mA
Operating Temperature	-40		+85	deg C

Mechanical Specifications

 Length
 1.5 in [38.1 mm]

 Width
 1.5 in [38.1 mm]

 Height
 0.4 in [10.16 mm]

 Weight
 0.11 lbs [49.9 g]

 Finish
 Blue Paint

Configuration

Design Absorptive, SP3T RF Connector SMA Female Field Replaceable 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:

- SP3T Absorptive Switch
- 1.0 GHz to 2.0 GHz
- Insertion Loss 1.25 dB max
- Isolation 60 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.



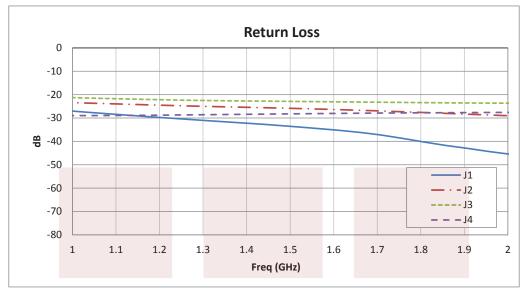
Compliance Certifications (see product page for current document)

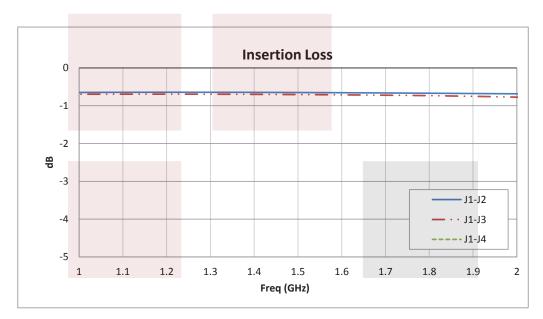
Plotted and Other Data	a	
Notes:		





Typical Performance Data











SMA PIN Diode Switch SP3T From 1 GHz to 2 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 SP3T From 1 GHz to 2 GHz Rated at +20 dBm FMSW6243

URL: https://www.fairviewmicrowave.com/sma-pin-diode-switch-sp3t-1-2-qhz-rated-20-dbm-fmsw6243-p.aspx

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