



Field Replaceable SMA SP3T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm

FMSW6248 is a Single Pole Triple Throw (SP3T) Absorptive PIN Diode Switch that operates from 1 GHz to 18 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Outstanding performance includes 3.75 dB max insertion loss, 65 dB typ 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.



GHz Ohms
Ohms
dB
dB
ns
ns
Watts
Watts
Vdc
Vdc
mA
mA
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
 0.1108 lbs [50.26 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 C Storage Range -55 to +125 deg C

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

tion B



Features:

- SP3T Absorptive Switch
- 1.0 GHz to 18.0 GHz
- Insertion Loss 3.75 dB max
- Isolation 65 dB typ
- 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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Shock Vibration Altitude Temperature Cycling ESD Sensitivity MIL-STD-202F, Method 213B, Condition B MIL-STD-202F, Method 204D, Condition B 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)

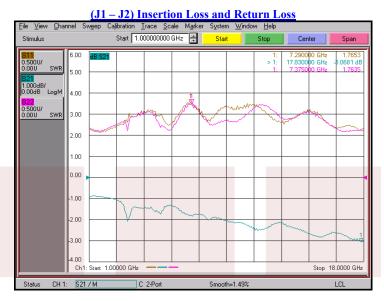


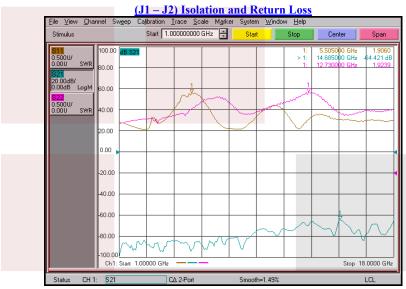
REACH Compliant	12	/17/2015	
Plotted and Other Data Notes:	a		





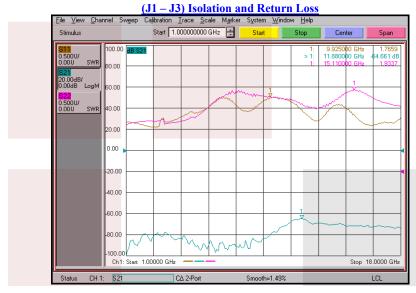
Typical Performance Data



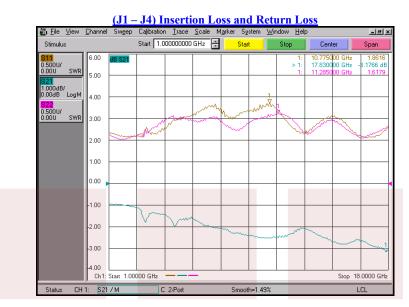


















Field Replaceable SMA SP3T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

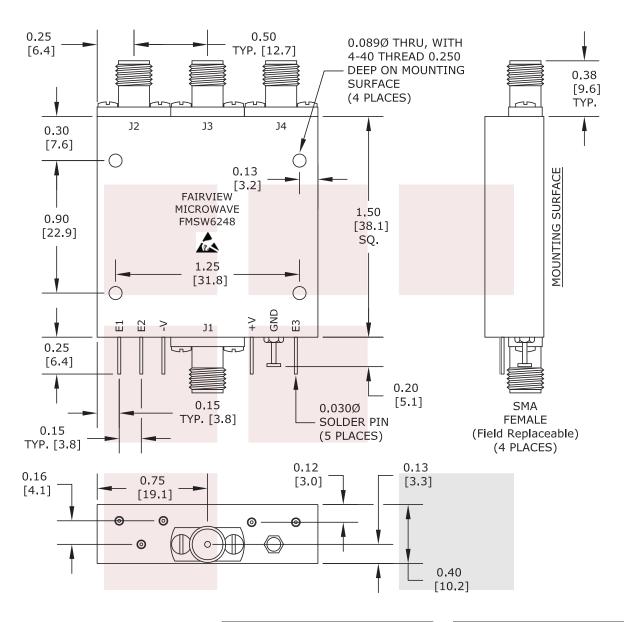
For additional information on this product, please click the following link: Field Replaceable SMA SP3T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm FMSW6248

URL: http://www.fairviewmicrowave.com/sma-sp3t-pin-diode-switch-absorptive-18-ghz-20-dbm-fmsw6248-p.aspx









3 BIT TTL LOGIC TABLE						
E1	E1	E3	FUNCTION			
0	1	1	J1-J2 LOW LOSS			
1	0	0	J1-J3 LOW LOSS			
1	1	0	J1-J4 LOW LOSS			

ALL DIMENSIONS ARE IN INCHES. TOLERANCES: $X.XX \pm 0.020$ $X.XXX \pm 0.010$

* 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].					
Field Replaceable SMA SP3T PIN Diode Switch	DWG NO FMSW6248			CAGE CODE 3FKR5		
Absorptive From 1 GHz to 18 GHz Rated at +20 dBm	CAD FILE 041516	SHEET	SCAL	E N/A	SIZE A	2233