



Field Replaceable SMA SPDT PIN Diode Switch From 2 GHz to 4 GHz Rated at +30 dBm

FMSW6219 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch that operates from 2 GHz to 4 GHz. Performance includes 0.9 dB typ insertion loss, 75 dB min isolation and 100 ns 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 VDC and -15 VDC 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	2		4	GHz
Impedance		50		Ohms
VSWR 1.6:1				
Insertion Loss	0.9		dB	
Isolation	75			dB
Switching Time			100	ns
Input Power (CW)			1	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15		Vdc
Current @ 5 Vdc		80		mA
Current @ -15 Vdc		50		mA
Operating Temperature	-40		+85	deg C



Features:

- SPDT Reflective Switch
- · 2 GHz to 4 GHz
- Insertion Loss 0.9 dB typ
- Isolation 75 dB min
- Power Input 30 dBm CW max
- Field Replaceable Connectors

Applications:

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

Mechanical Specifications

Lenath 1.2 in [30.48 mm] Width 0.9 in [22.86 mm] 0.35 in [8.89 mm] Height Weight 0.0568 lbs [25.76 g] Finish

Blue Paint

Configuration

Design Reflective, SPDT SMA Female RF Connector Field Replaceable RF Connector Option 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

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

tion B

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

MIL-STD-202F, Method 105C, Condi-Altitude

tion B

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com

sales@fairviewmicrowave.com





Temperature Cycling ESD Sensitivity

MIL-STD-202F, Method 107D, Condition A ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



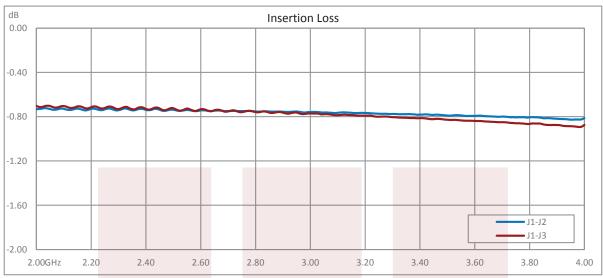
Compliance Certifications (visit www.FairviewMicrowave.com for current document)
REACH Compliant 12/17/2015

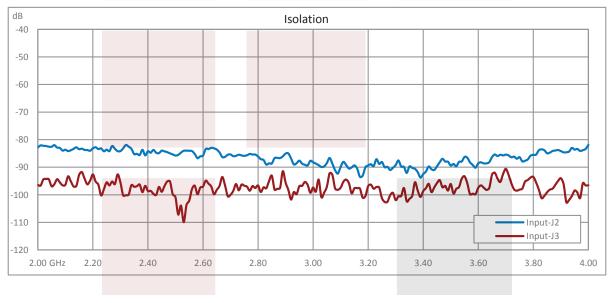
Plotted and Other Data	a	
Notes:		



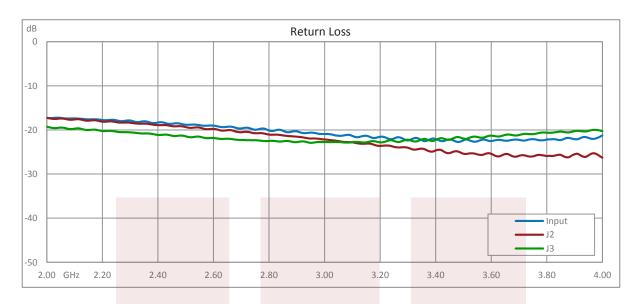


Typical Performance Data









Field Replaceable SMA SPDT PIN Diode Switch From 2 GHz to 4 GHz Rated at +30 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.

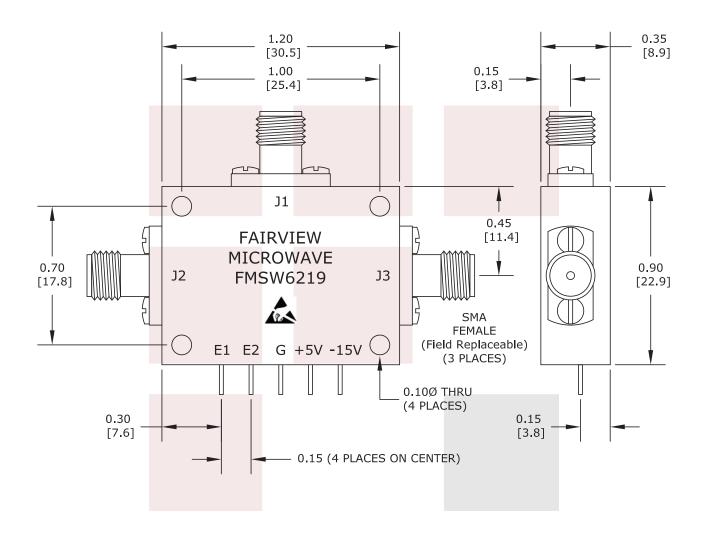
For additional information on this product, please click the following link: Field Replaceable SMA SPDT PIN Diode Switch From 2 GHz to 4 GHz Rated at +30 dBm FMSW6219

URL: https://www.fairviewmicrowave.com/sma-spdt-pin-diode-switch-4-ghz-30-dbm-fmsw6219-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.







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

 * THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE $\,\#1$ ON TITLE BLOCK.

2 I	BIT T	TL LOGIC TABLE		
E1	E2	FUNCTION		
0	1	J1-J2 LOW LOSS		
1	0	J1-J3 LOW LOSS		

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 SPDT PIN Diode Switch From	DWG NO FMSW6219			CAGE CODE 3FKR5		
GHz to 4 GHz Rated at +30 dBm	CAD FILE 041916	SHEET	SCAL	E N/A	SIZE A	2233