



Field Replaceable SMA SP4T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm

FMSW6255 is a Single Pole Single Four (SP4T) 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 typical performance includes 3.75 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 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	1		18	GHz
Impedance		50		Ohms
VSWR			2:1	
Insertion Loss			3.75	dB
Isolation	70			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage	ge	5		Vdc
Negative Operating Volta	age	-15		Vdc
Operating Temperature	-40		+85	deg C

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Features:

- SP4T Absorptive Switch
- 1.0 GHz to 18.0 GHz
- Insertion Loss 3.75 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

Mechanical Specifications

 Length
 1.25 in [31.75 mm]

 Width
 1.25 in [31.75 mm]

 Height
 0.4 in [10.16 mm]

 Weight
 0.071 lbs [32.21 g]

 Finish
 Blue Paint

Configuration

Design Absorptive, SP4T RF Connector SMA Female RF Connector Option 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

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





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.



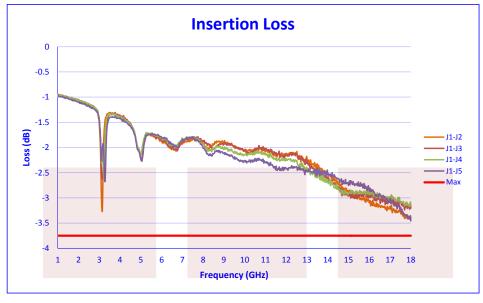
Compliance Certifications (visit www.FairviewMicrowave.com for current document) REACH Compliant 12/17/2015

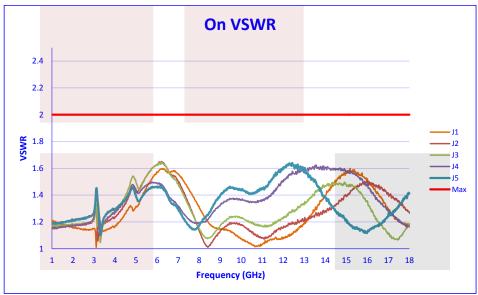
Plotted and Other Data Notes:	a	





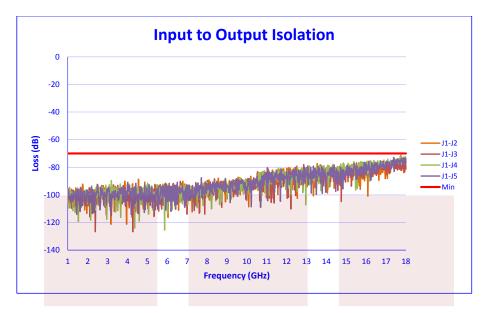
Typical Performance Data

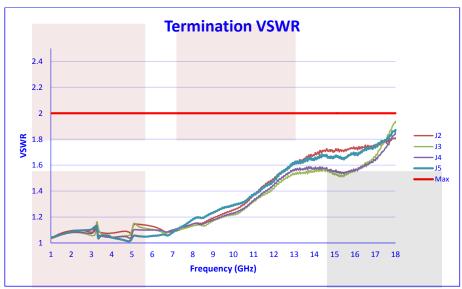




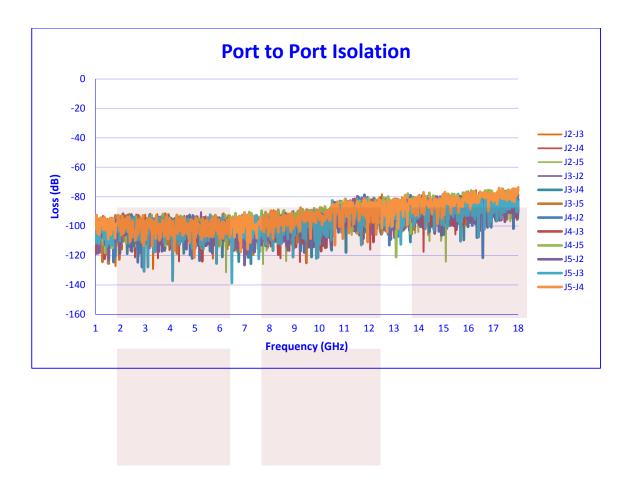












Field Replaceable SMA SP4T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

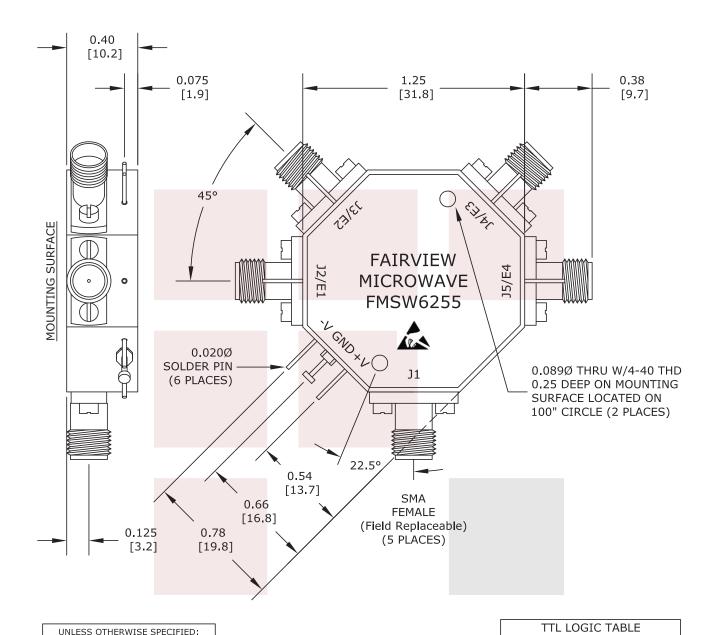
For additional information on this product, please click the following link: Field Replaceable SMA SP4T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm FMSW6255

URL: http://www.fairviewmicrowave.com/sma-sp4t-pin-diode-switch-absorptive-18-ghz-20-dbm-fmsw6255-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.







DIMENSIONS ARE IN: inches [mm] TOLERANCES ARE:

X.XX ± 0.020 [± 0.508] X.XXX ± 0.010 [± 0.254]

E1 0 1 1 0 1 1 1 1 0 1 0 = LOW LOSS1 0 1 = ISOLATION

Low Loss

J1-J2

J1-J3

J1-J4

J1**-**J5

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

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE Field Replaceable SMA SP4T PIN Diode Switch Absorptive From 1 GHz to 18 GHz Rated at +20 dBm

FAIRVIEW MICROWAVE INC.

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].

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DWG NO	FMSW6255			CAGE CODE 3FKR5			
CAD FILE	041516	SHEET	SCAL	E N/A	SIZE A	2233	