

SMA SP8T PIN Diode Switch Absorptive from 500 MHz to 18 GHz Rated at +20 dBm

FMSW6213 is a SP8T Absorptive Switch designed to operate over the 0.5 GHz to 18.0 GHz Frequency Range. The switch is designed to maintain low insertion loss, high isolation, and fast switching speed.

Electrical Specifications

TTL Control Logic

Off/Isolation: "0"
On/Low Loss: "1"

Description	Min	Typ	Max	Units
Frequency Range	0.5		18	GHz
Impedance		50		Ohms
VSWR			2:1	
Insertion Loss			4.5	dB
Isolation	55			dB
Settling Time			100	ns
Input Power (CW)			0.1	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-5		Vdc
Current @ 5 Vdc		400		mA
Current @ -5Vdc		100		mA
Operating Temperature	-40		+85	deg C

Mechanical Specifications

Length 4 in [101.6 mm]
 Width 1.5 in [38.1 mm]
 Height 0.4 in [10.16 mm]
 Weight 0.0675 lbs [30.62 g]
 Finish Grey Paint

Configuration

Package Type Connectorized Module
 Design Absorptive, SP8T
 RF Connector SMA Female
 Control Connector Pin

Environmental Specifications

Temperature

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

Humidity MIL-STD-202F, METHOD 103B COND. B

Shock MIL-STD-202F, METHOD 213B COND. B

Vibration MIL-STD-202F, METHOD 204D COND. B

Altitude MIL-STD-202F, METHOD 105C COND. B

Temperature Cycling MIL-STD-202F, METHOD 107D COND. A



Features:

- SP8T Absorptive Switch
- 0.5 GHz to 18.0 GHz
- Insertion Loss 4.5 dB max
- Isolation 55 dB min
- Power Input 20 dBm CW max
- Switching Speed 100 nsec max

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

ESD Sensitivity

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

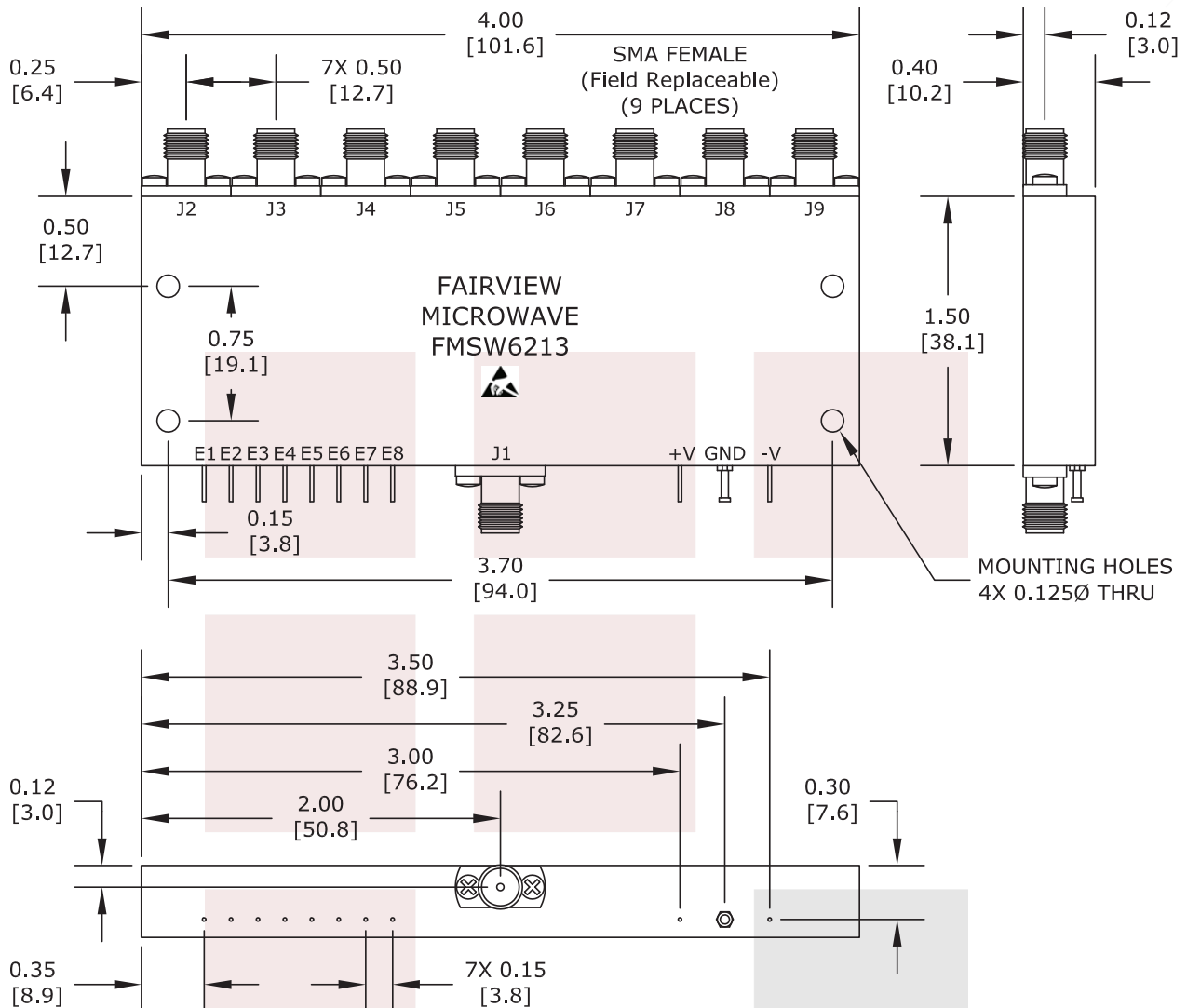
Notes:

SMA SP8T PIN Diode Switch Absorptive from 500 MHz 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA SP8T PIN Diode Switch Absorptive from 500 MHz to 18 GHz Rated at +20 dBm FMSW6213](#)

URL: <https://www.fairviewmicrowave.com/sma-pin-diode-switch-sp8t-500-mhz-18-ghz-rated-20-dbm-fmsw6213-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.



E1	E2	E3	E4	E5	E6	E7	E8	Low Loss
1	0	0	0	0	0	0	0	J1-J2
0	1	0	0	0	0	0	0	J1-J3
0	0	1	0	0	0	0	0	J1-J4
0	0	0	1	0	0	0	0	J1-J5
0	0	0	0	1	0	0	0	J1-J6
0	0	0	0	0	1	0	0	J1-J7
0	0	0	0	0	0	1	0	J1-J8
0	0	0	0	0	0	0	1	J1-J9

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

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

NOTE: 0=Isolation
1=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].			
TITLE SMA SP8T PIN Diode Switch Absorptive from 500 MHz to 18 GHz Rated at +20 dBm		DWG NO FMSW6213		CAGE CODE 3FKR5	
CAD FILE	041116	SHEET	SCALE	N/A	SIZE A 2233