

SMA PIN Diode Switch SPST From 10 MHz to 1,000 MHz Rated at +20 dBm

FMSW6230 is a SPST Absorptive Switch designed to operate over the 0.01 GHz to 1.0 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: 1
On/Low Loss: 0

Description	Min	Typ	Max	Units
Frequency Range	10		1,000	MHz
Impedance		50		Ohms
VSWR		1.5:1		
Insertion Loss			1.3	dB
Isolation		80		dB
Switching Time			200	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		20		mA
Current @ -15 V		40		mA
Operating Temperature	-55		+85	deg C

Mechanical Specifications

Length	1 in [25.4 mm]
Width	1 in [25.4 mm]
Height	0.5 in [12.7 mm]
Weight	0.06 lbs [27.22 g]
Finish	Blue

Configuration

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

Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Storage Range	-65 to +125 deg C

Humidity	MIL-STD-202F, Method 103B, Condition B
Shock	MIL-STD-202F, Method 213B, Condition B
Vibration	MIL-STD-202F, Method 204D, Condition B
Altitude	MIL-STD-202F, Method 105C, Condition B



Features:

- SPST Absorptive Switch
- 0.01 GHz to 1.0 GHz
- Insertion Loss 1.3 dB max
- Isolation 80 dB typ
- Power Input 20 dBm CW max

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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.

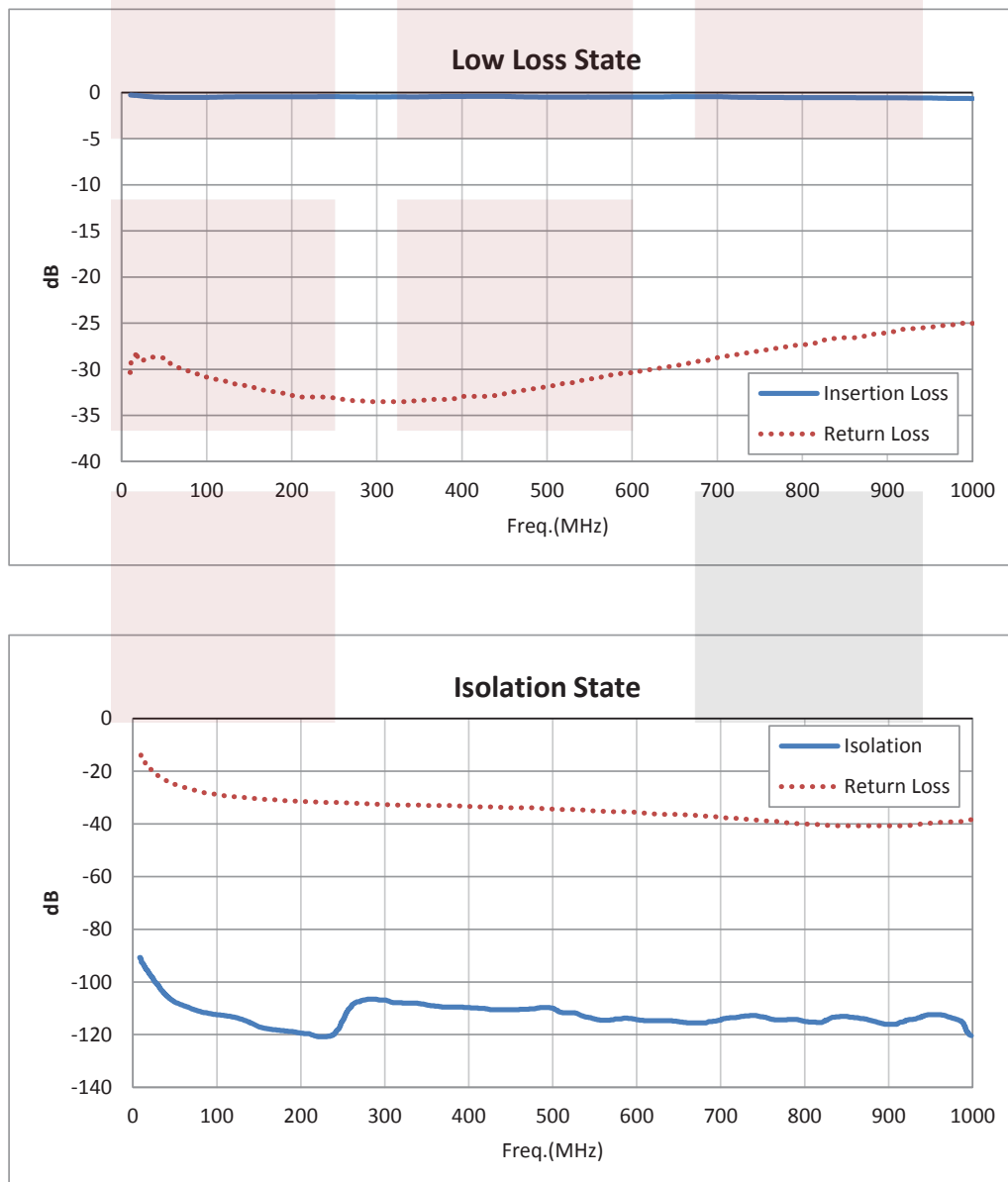


Compliance Certifications (visit www.FairviewMicrowave.com for current document)
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



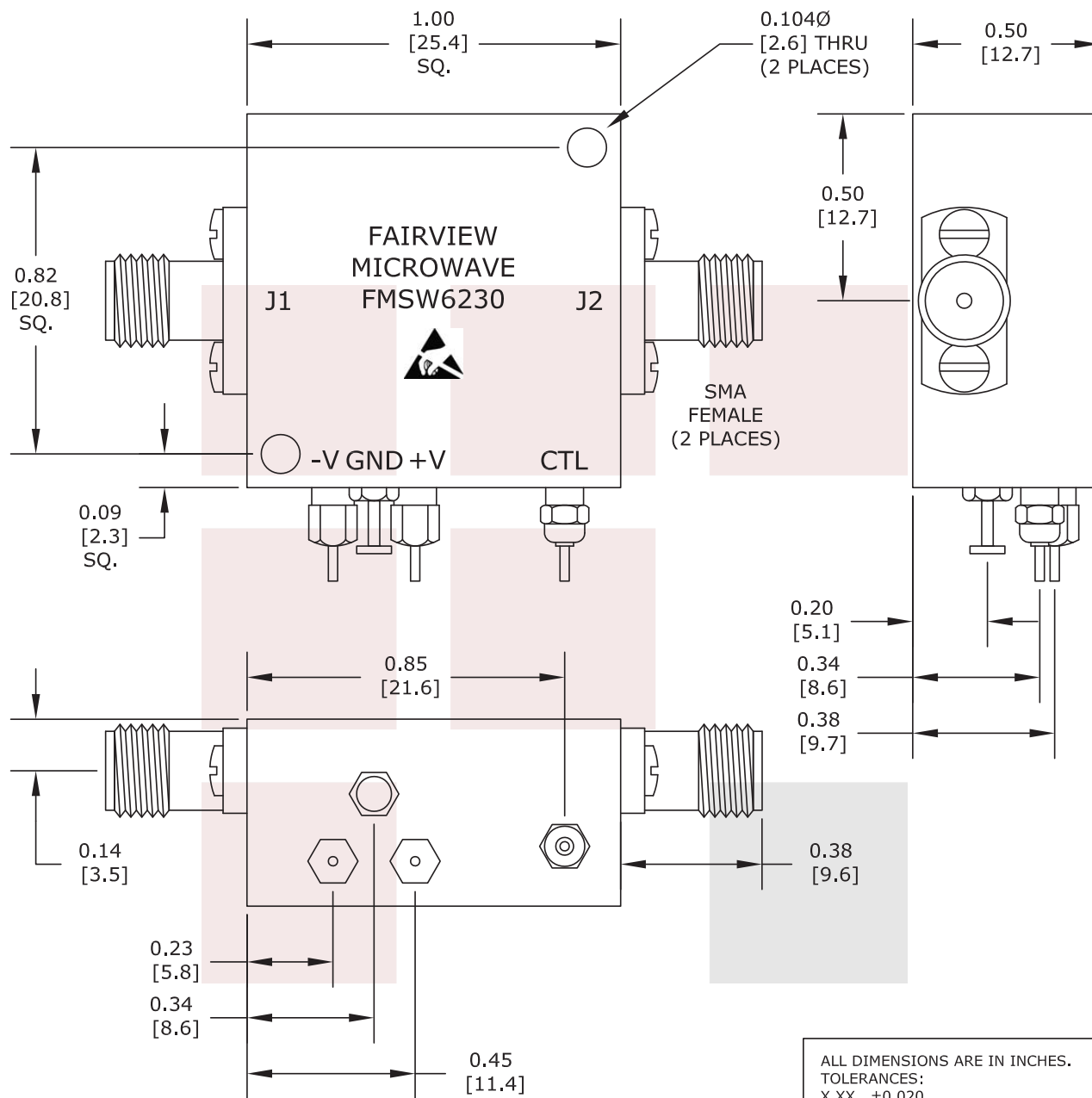
SMA PIN Diode Switch SPST From 10 MHz to 1,000 MHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SPST From 10 MHz to 1,000 MHz Rated at +20 dBm FMSW6230](#)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spst-10-1000-mhz-rated-20-dbm-fmsw6230-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.

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 PIN Diode Switch SPST From 10 MHz to 1,000 MHz Rated at +20 dBm		DWG NO FMSW6230		CAGE CODE 3FKR5	
CAD FILE	112015	SHEET	SCALE	N/A	SIZE A 2233