

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

FMSW6288 is a Transfer Absorptive Switch that operates from 2.0 GHz to 4.0GHz. Performance includes 1.2 dB max insertion loss, 75 dB min isolation, and 100 nsec max switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -55°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.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
VSWR			1.6:1	
Insertion Loss			1.2	dB
Isolation	75			dB
Switching Time			100	ns
Input Power (CW)			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Operating Temperature	-55		+85	deg C

Mechanical Specifications

Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.5 in [12.7 mm]
Weight	0.08 lbs [36.29 g]
Finish	Blue

Configuration

Design	Absorptive, Transfer
RF Connector	SMA Female
Control Connector	Solder 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
Temperature Cycling	MIL-STD-202F, Method 107D, Condition A



Features:

- Transfer Absorptive Switch
- 2.0 GHz to 4.0 GHz
- High Speed Switching
- Insertion Loss 1.2 dB max
- 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

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ESD Sensitivity

ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



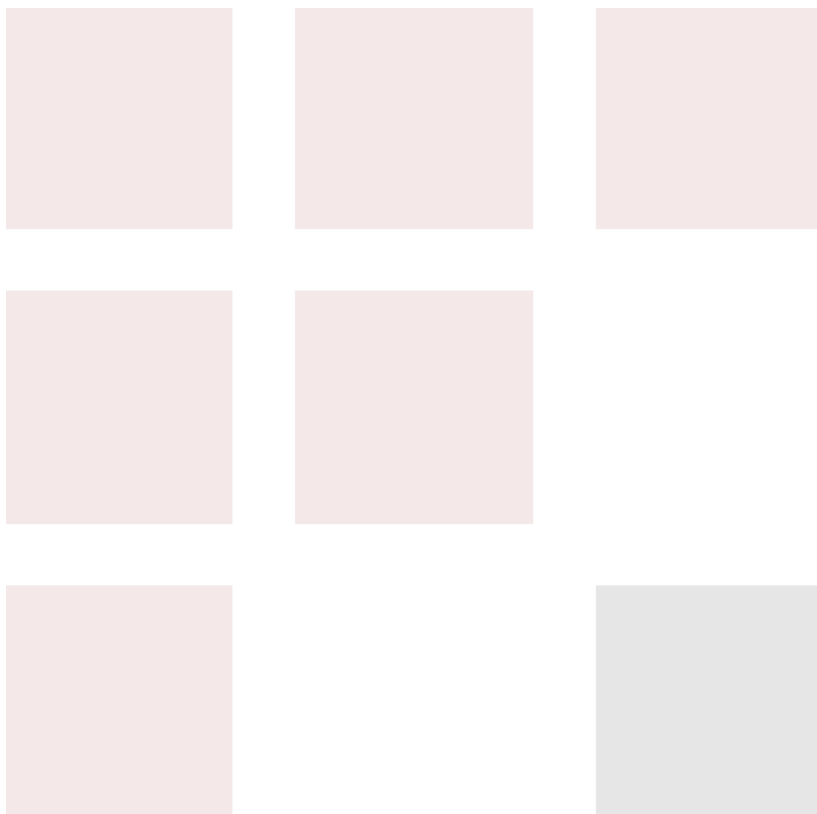
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

REACH Compliant

12/17/2015

Plotted and Other Data

Notes:

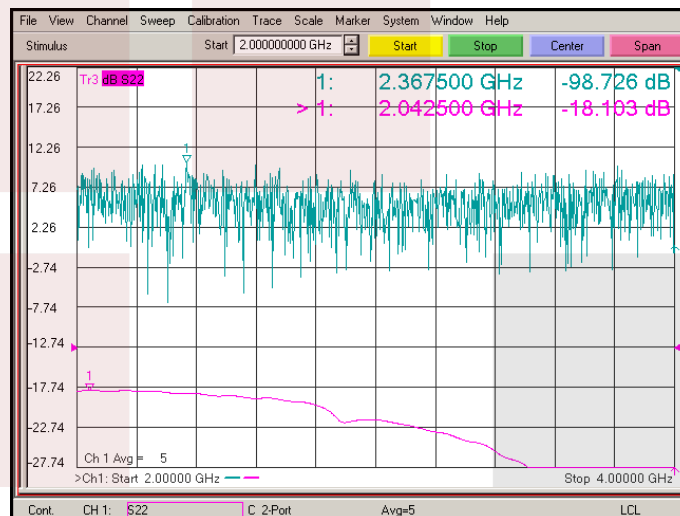


Typical Performance Data

(J1 – J2) Insertion Loss and Return Loss



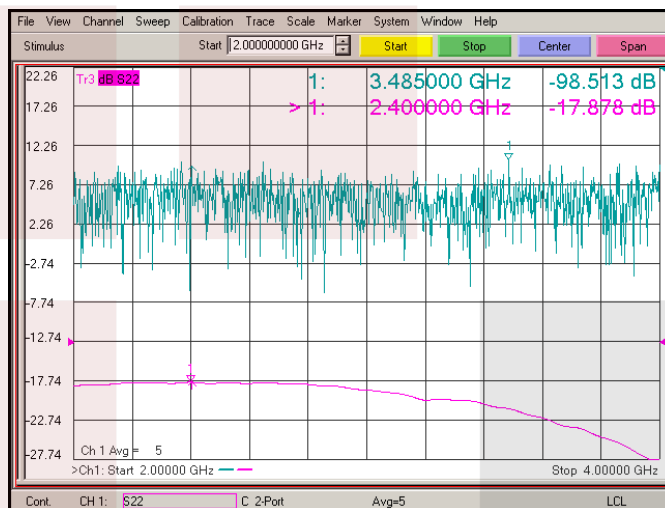
(J1 – J2) Isolation and Termination Return Loss



(J3 – J4) Insertion Loss and Return Loss



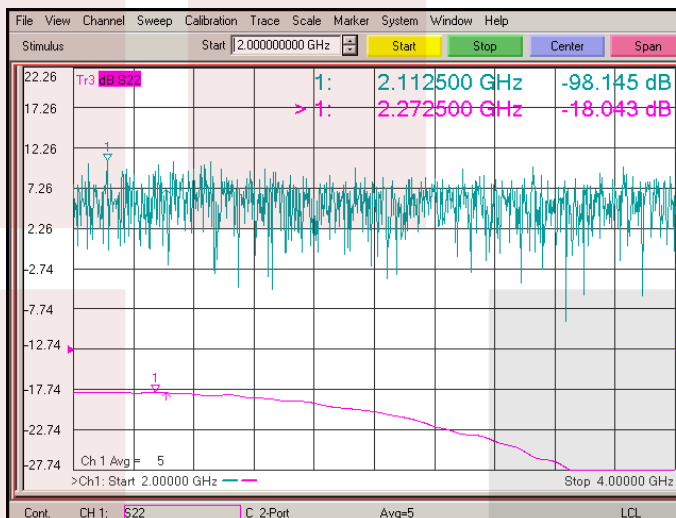
(J3 – J4) Isolation and Termination Return Loss



(J1 – J4) Insertion Loss and Return Loss



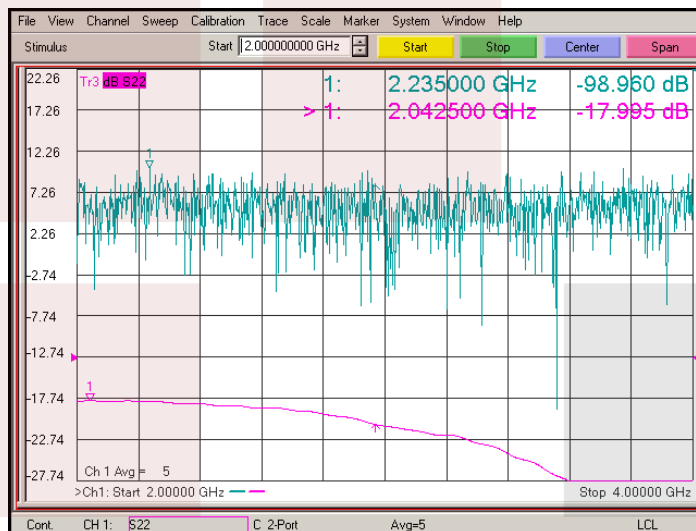
(J1 – J4) Isolation and Termination Return Loss



(J2 – J3) Insertion Loss and Return Loss



(J2 – J3) Isolation and Termination Return Loss



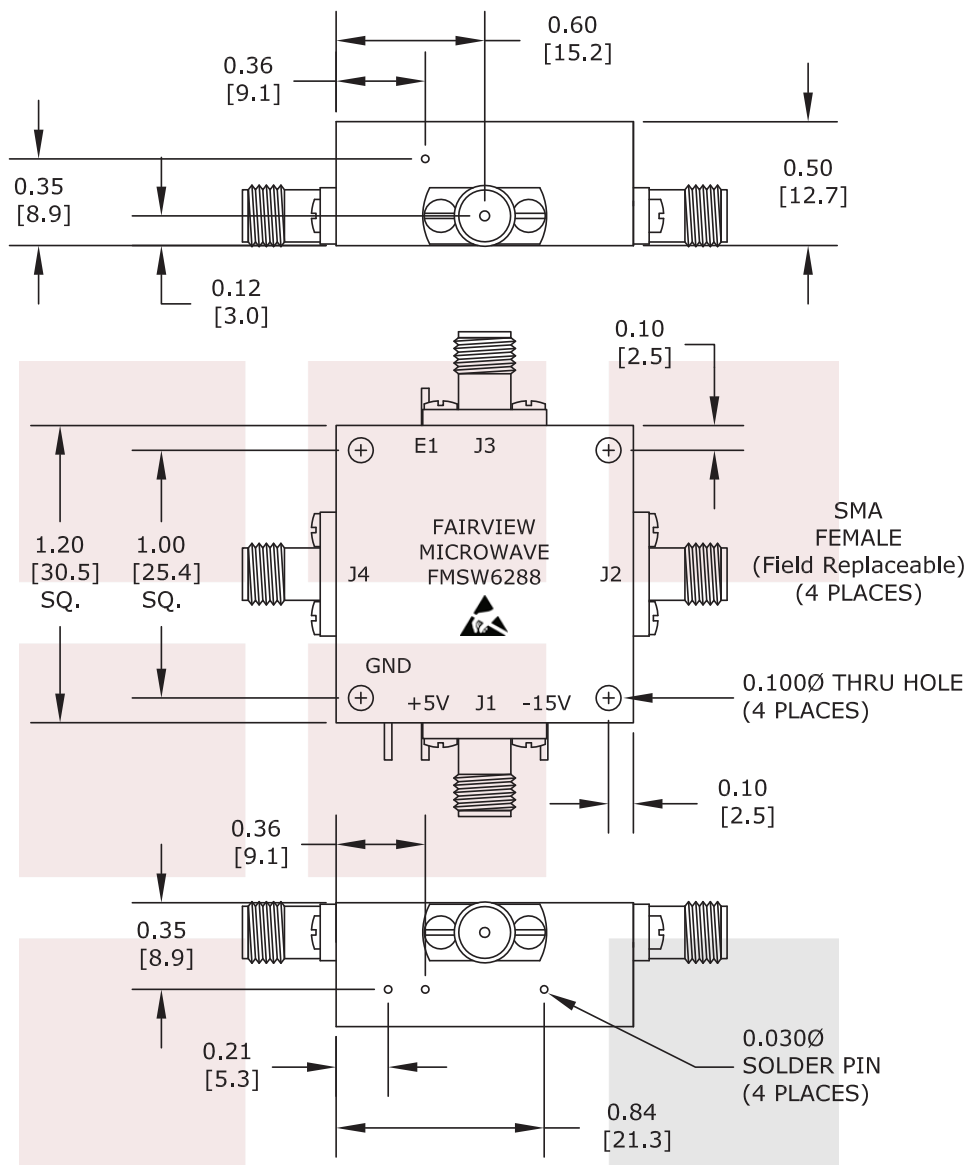
Field Replaceable SMA Transfer PIN Diode Switch Absorptive From 2 GHz to 4 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Field Replaceable SMA Transfer PIN Diode Switch Absorptive From 2 GHz to 4 GHz Rated at +30 dBm FMSW6288](#)

URL: <http://www.fairviewmicrowave.com/sma-transfer-pin-diode-switch-2-4-ghz-30-dbm-fmsw6288-p.aspx>

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TTL LOGIC TABLE		
TTL LOGIC	INSERTION LOSS	ISOLATION
0	J1-J2 J3-J4	J1-J4 J2-J3
1	J1-J4 J2-J3	J1-J2 J3-J4

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 Field Replaceable SMA Transfer PIN Diode Switch Absorptive From 2 GHz to 4 GHz Rated at +30 dBm		DWG NO FMSW6288	CAGE CODE 3FKR5
CAD FILE	033116	SHEET	SCALE N/A SIZE A 2233