

**Field Replaceable SMA Transfer PIN
Diode Switch Absorptive From 10 MHz
to 1,000 MHz Rated at 2 Watts**

The FMSW6286 is a Transfer Absorptive Switch that operates from 0.01 GHz to 1.0 GHz. Performance includes 1.3 dB max insertion loss, 80 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 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.



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			100	ns
Input Power (CW)			2	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15		Vdc
Operating Temperature	-55		+85	deg C

Features:

- Transfer Absorptive Switch
- 0.01 GHz to 1.0 GHz
- Insertion Loss 1.3 dB max
- Isolation 80 dB min
- Power Input 33 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	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.5 in [12.7 mm]
Weight	0.081 lbs [36.74 g]
Design	Absorptive, Transfer
RF Connector	SMA Female
RF Connector Option	Field Replaceable
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

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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.

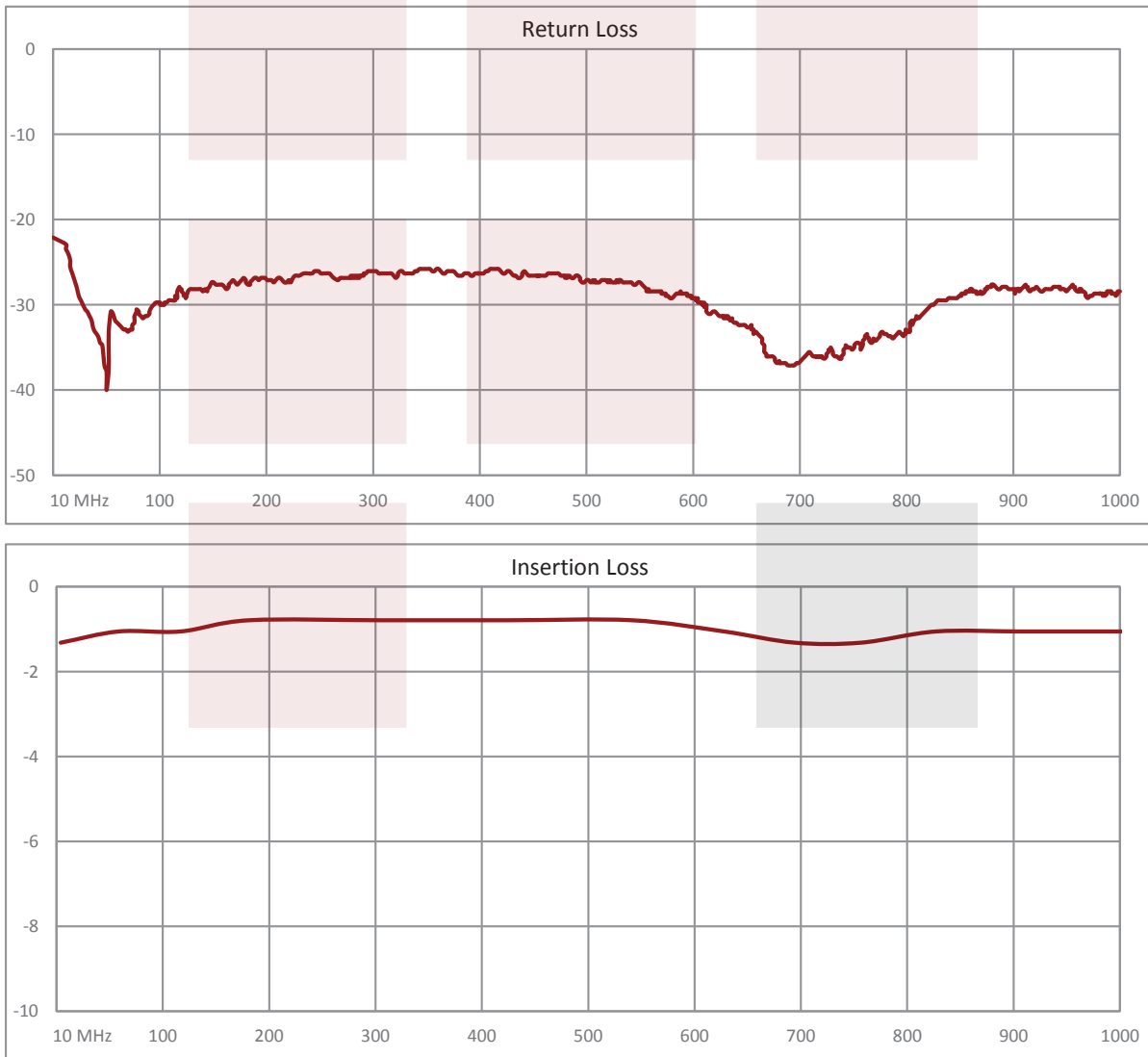


Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



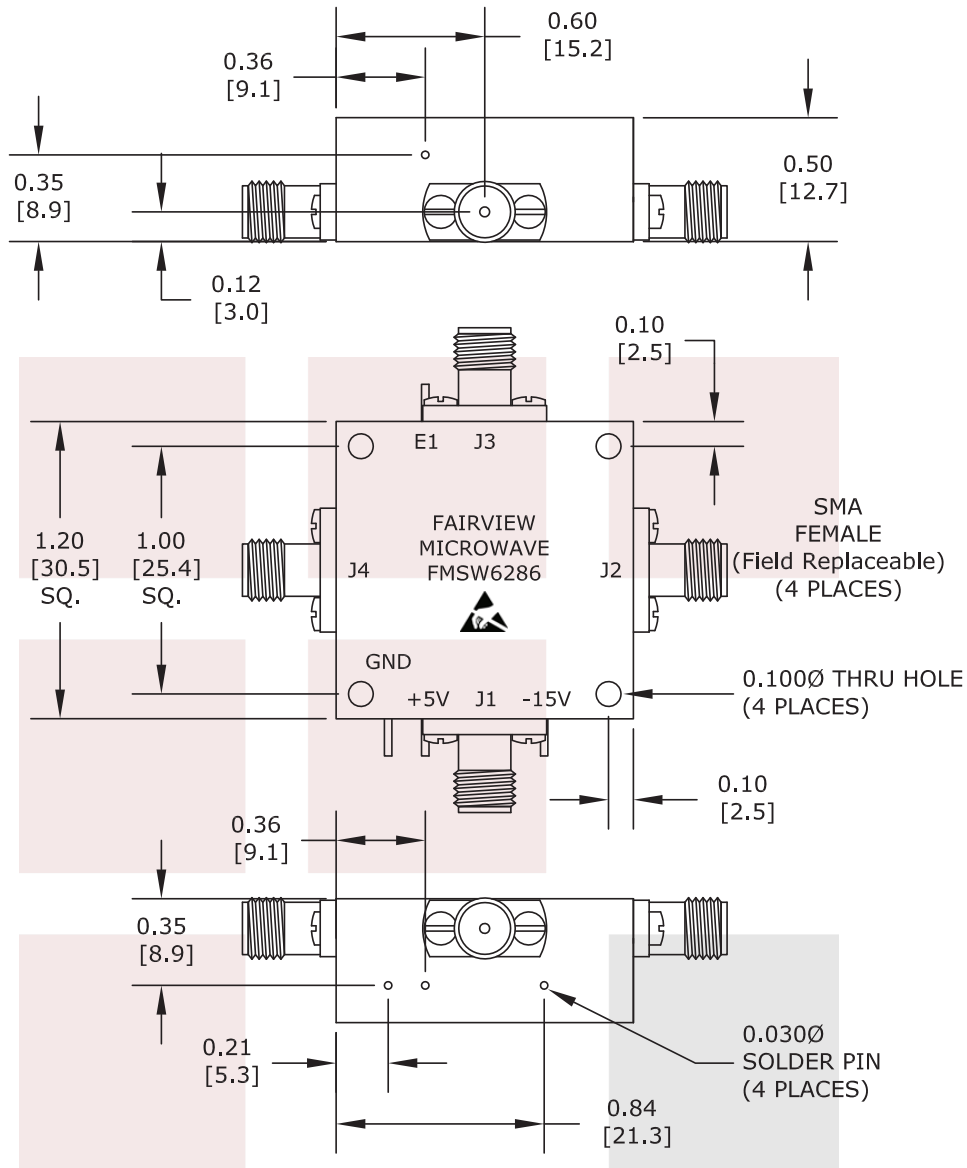
Field Replaceable SMA Transfer PIN Diode Switch Absorptive From 10 MHz to 1,000 MHz Rated at 2 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Field Replaceable SMA Transfer PIN Diode Switch Absorptive From 10 MHz to 1,000 MHz Rated at 2 Watts FMSW6286](#)

URL: <https://www.fairviewmicrowave.com/sma-transfer-pin-diode-switch-absorptive-1000-mhz-2-watts-fmsw6286-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.





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.

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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 10 MHz to 1,000 MHz Rated at 2
Watts

DWG NO	FMSW6286		CAGE CODE			3FKR5	
CAD FILE	041916	SHEET	SCALE	N/A	SIZE	A	2233