

SMA SPDT PIN Diode Switch Absorptive From 20 MHz to 4.3 GHz Rated at +30 dBm

The FMSW2035 is a single pole double throw (SPDT) terminated PIN diode switch that operates over the frequency range of 20 MHz to 4300 MHz. The 50 ohm design supports TTL control logic and is rated up to 1 watt average RF input power. Typical performance includes 3 dB insertion loss and greater than 55 dB isolation. Switching speed is 10 microseconds with 1.5:1 typical VSWR and an operating voltage of +24 Vdc with 50 mA nominal current. The rugged package design supports SMA Female RF input/output connectors. The Switch design is highly reliable with an operational temperature of 0°C to +70°C.

Electrical Specifications

TTL Control Logic

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

Description	Min	Typ	Max	Units
Frequency Range	0.02		4.3	GHz
Impedance		50		Ohms
VSWR			1.5:1	
Insertion Loss		3		dB
Switching Time			10	µs
Input Power (CW)			1	Watts
Positive Operating Voltage		24		Vdc
Current @ 24 Vdc		50		mA
Operating Temperature	0		+70	deg C

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.02 to 1	1 to 2	2 to 4	4 to 4.3		GHz
Insertion Loss, Max	1.5	3	3	3		dB
Isolation, Min	80	70	60	55		dB

Mechanical Specifications

Weight 0.393 lbs [178.26 g]
Design Absorptive, SPDT
RF Connector SMA Female

Environmental Specifications

Temperature

Operating Range 0 to +70 deg C
Storage Range -55 to +90 deg C

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



Features:

- SPDT PIN Diode Switch
- Terminated
- 20 to 4300 MHz Bandwidth
- Insertion loss: 3 dB max
- Isolation: 55 dB min
- 50 Ohms
- Switching Speed: 10 microseconds
- DC voltage: +24 Vdc
- SMA female connectors
- TTL Control Logic

Applications:

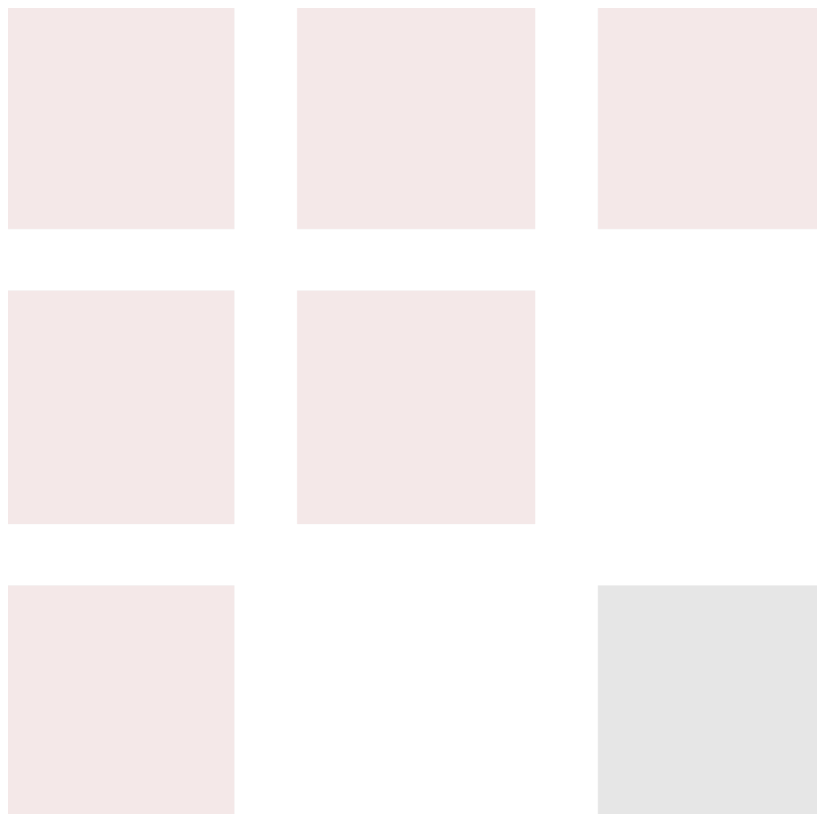
- Electronic Warfare
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- Military and Wireless Communications Systems
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Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com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

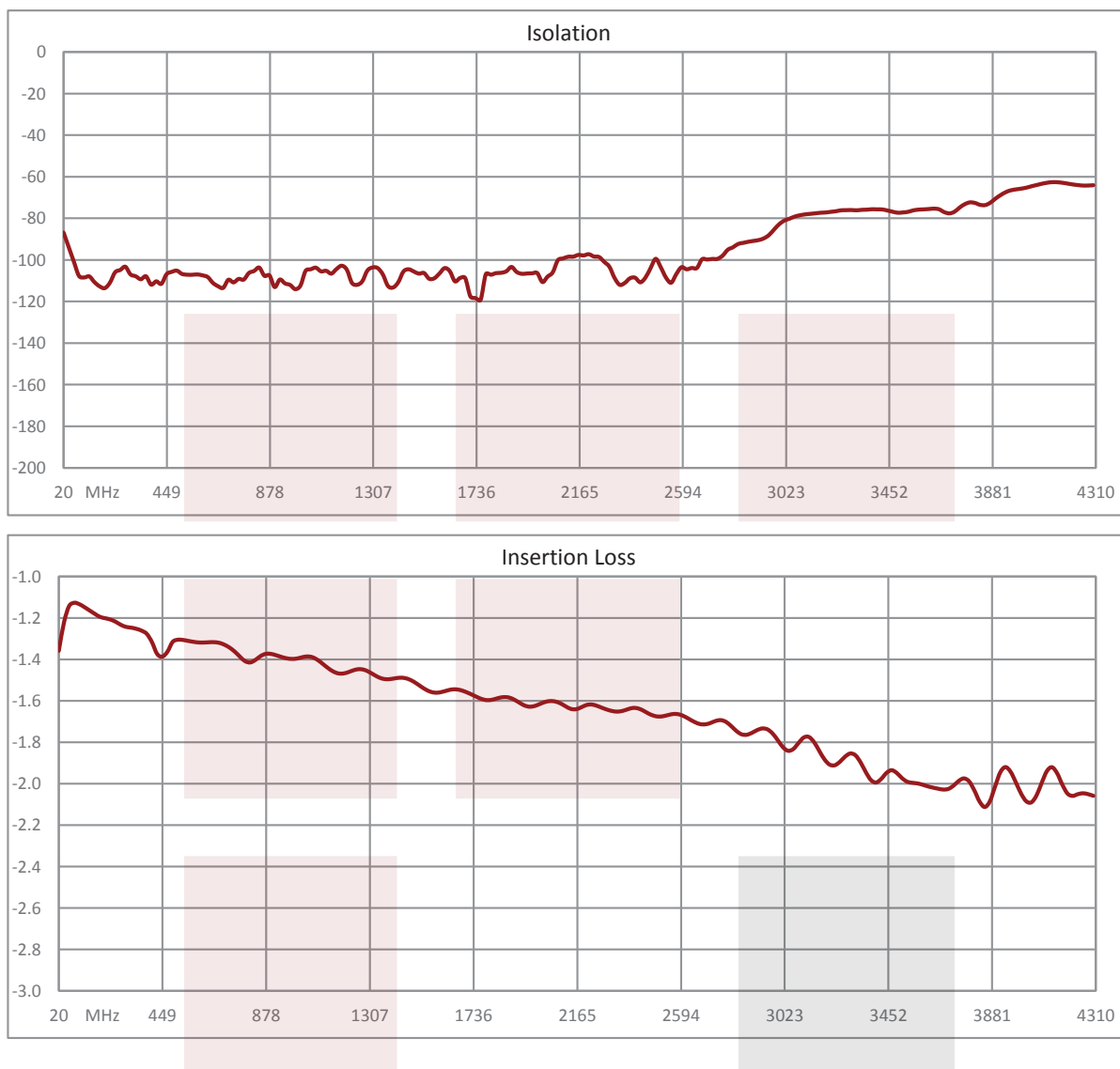
Compliance Certifications (see [product page](#) for current document)

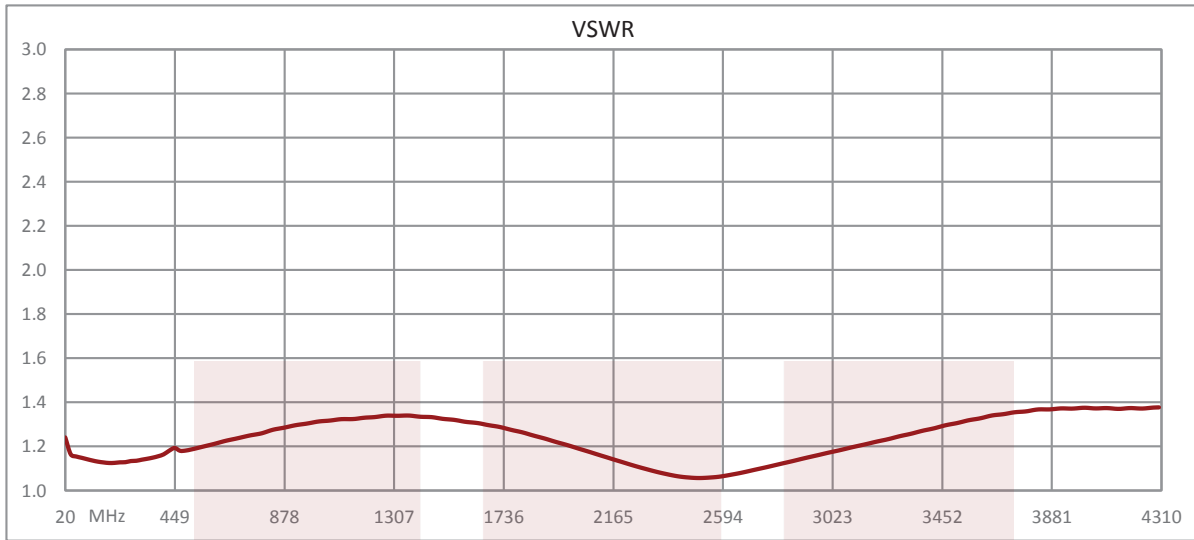
Plotted and Other Data

Notes:



Typical Performance Data



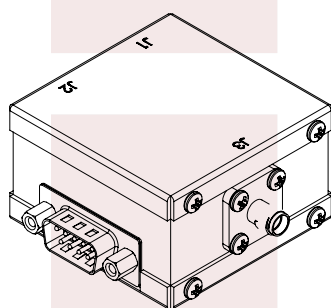
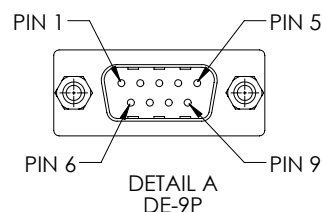
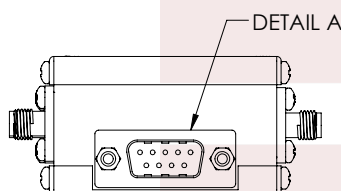
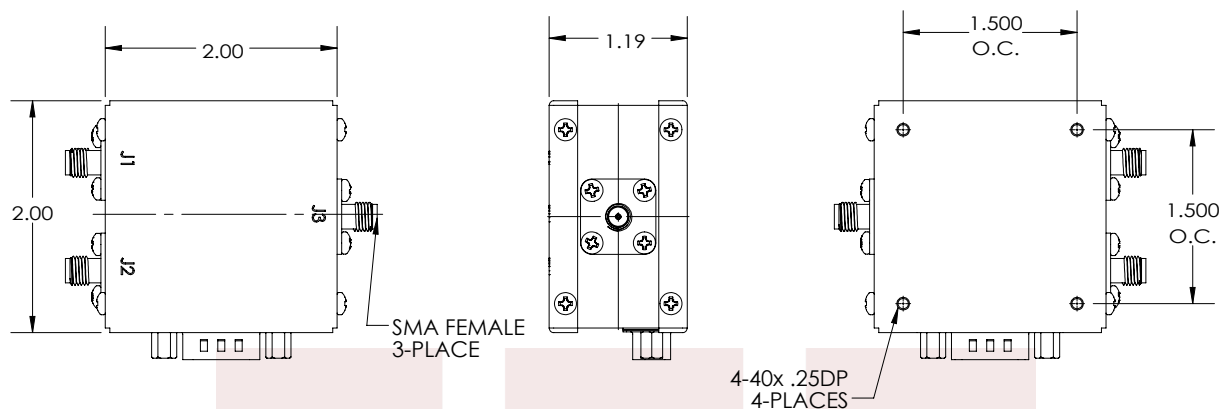


SMA SPDT PIN Diode Switch Absorptive From 20 MHz to 4.3 GHz Rated at +30 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA SPDT PIN Diode Switch Absorptive From 20 MHz to 4.3 GHz Rated at +30 dBm FMSW2035](https://www.fairviewmicrowave.com/sma-spdt-pin-diode-switch-absorptive-4.3-ghz-30-dbm-fmsw2035-p.aspx)

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STANDARD TOLERANCES

.X ± 0.2
.XX ± 0.01
.XXX ± 0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

PIN	FUNCTION
1	TTL CONTROL 1
2	TTL CONTROL 2
3	NO CONNECTION
4	NO CONNECTION
5	NO CONNECTION
6	NO CONNECTION
7	+5 Vdc
8	+24 Vdc
9	GROUND

J3 TO	C1	C2
J1	1	0
J2	0	1
OFF	0	0

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

DWG NO

FMSW2035

CAGE CODE

3FKR5

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CAD FILE 052617

SHEET

SCALE N/A

SIZE A

CN 0157