

SMA PIN Diode Switch SPDT From 70 MHz to 26.5 GHz Rated at +27 dBm

The FMSW2010 is an SPDT ABSORPTIVE PIN DIODE SWITCH that operates over a wide frequency band from 0.07 to 26.5 GHz. J1 and J2 ports are terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes max. insertion loss of 5dB, max. return loss of -7dB, min. isolation of 55dB, and max. switching speed of 100nsec. TTL-compatible driver circuitry is included for accurate logic control. The design requires dual voltage controls of +5 Vdc and -5 Vdc, with an operational temperature range of -30°C to +60°C. External connectors include solder terminals and SMA female connectors.



Electrical Specifications

| Description | Min | Typ | Max | Units |
|----------------------------|------|-----|------|-------|
| Frequency Range | 0.07 | | 26.5 | GHz |
| Impedance | | 50 | | Ohms |
| Return Loss | | | -7 | dB |
| Insertion Loss | | | 5 | dB |
| Isolation | 55 | | | dB |
| Switching Time | | | 100 | ns |
| Input Power (CW) | | | 0.5 | Watts |
| Positive Operating Voltage | | 5 | | V |
| Negative Operating Voltage | | -5 | | V |
| Operating Temperature | -30 | | +60 | deg C |

Electrical Specification Notes:
Specified switching time includes TTL driver delay.

Mechanical Specifications

| | |
|-------------------|----------------------|
| Length | 1 in [25.4 mm] |
| Width | 1.2 in [30.48 mm] |
| Height | 0.6 in [15.24 mm] |
| Package Type | Connectorized Module |
| Design | SPDT, Absorptive |
| RF Connector | SMA Female |
| Control Connector | SMA Female |

Environmental Specifications

Temperature

| | |
|-----------------|--|
| Operating Range | -30 to +60 deg C |
| 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)

Plotted and Other Data

Notes:

Features:

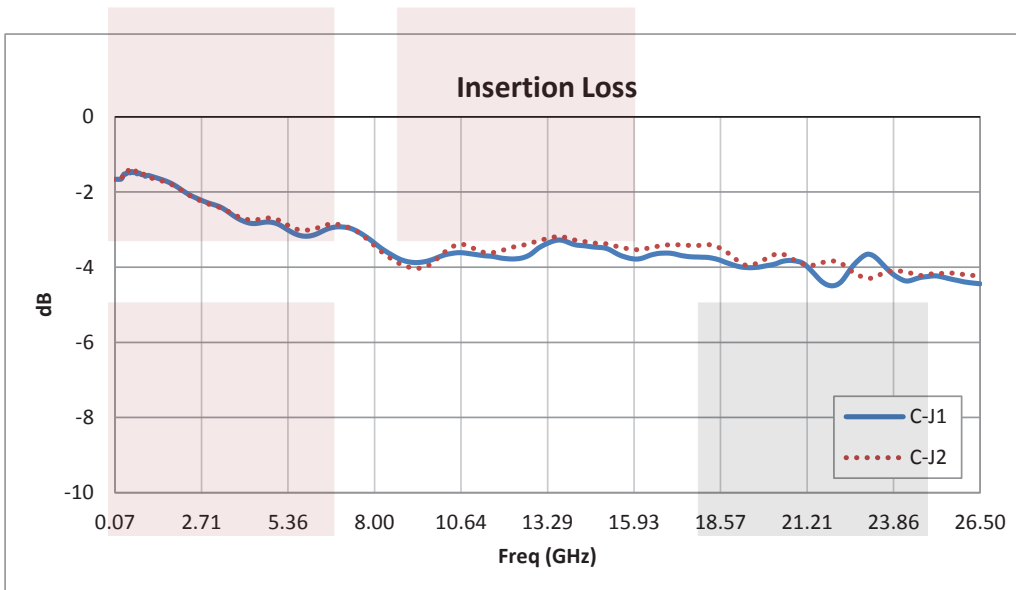
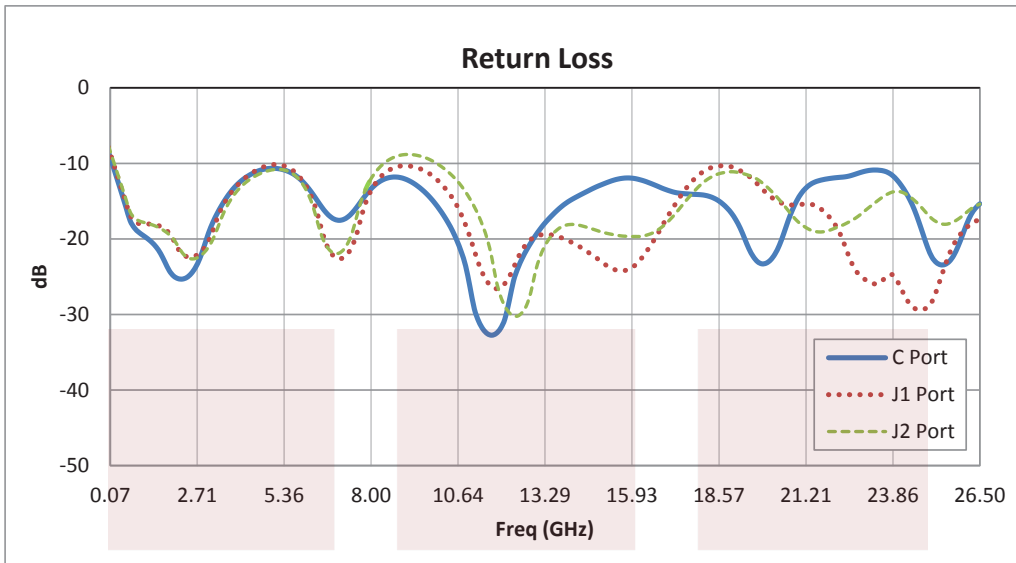
- SPDT Absorptive Switch
- 0.07 GHz to 26.5 GHz
- Insertion Loss 5 dB max
- Isolation 55 dB min
- Power Input +27 dBm CW max

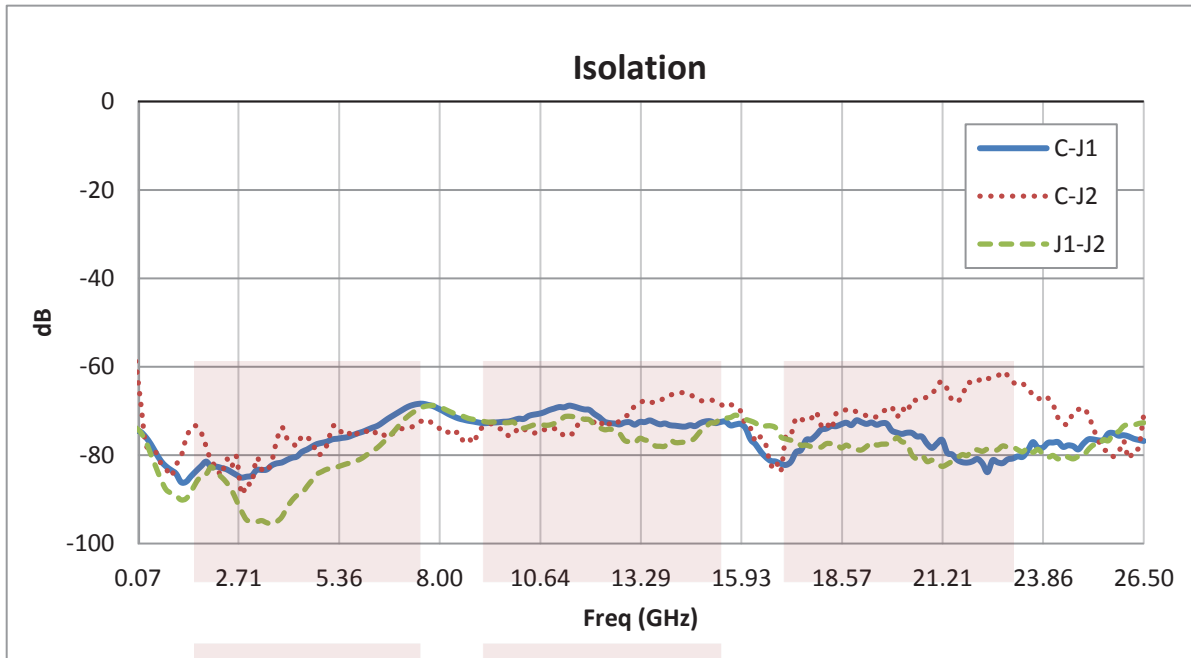
Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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Typical Performance Data



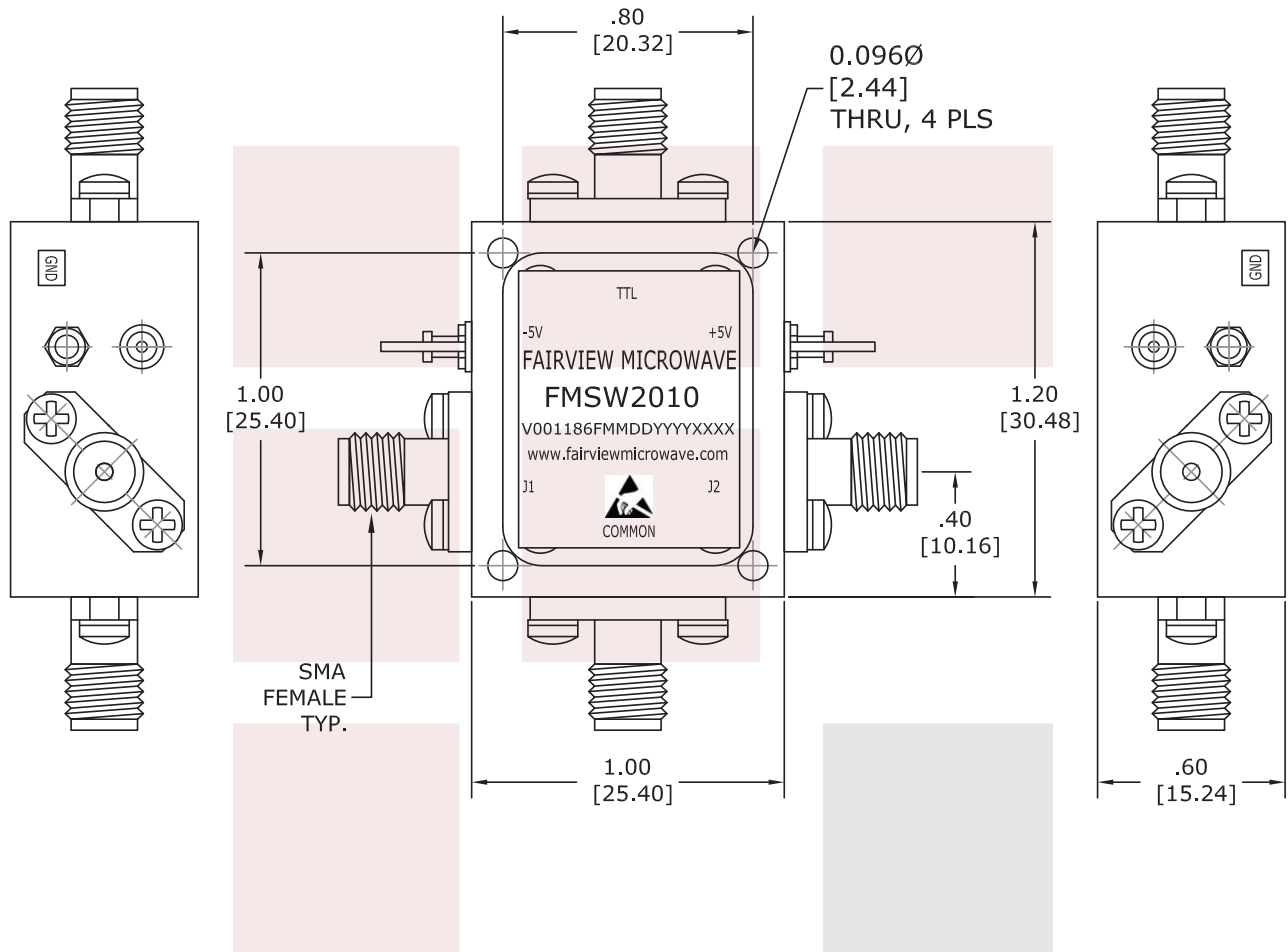


SMA PIN Diode Switch SPDT From 70 MHz to 26.5 GHz Rated at +27 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SPDT From 70 MHz to 26.5 GHz Rated at +27 dBm FMSW2010](http://www.fairviewmicrowave.com/sma-pin-diode-switch-spdt-50-mhz-26.5-ghz-rated-27-dbm-fmsw2010-p.aspx)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-spdt-50-mhz-26.5-ghz-rated-27-dbm-fmsw2010-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.



| LOGIC TABLE | | |
|-------------|----------|-----------|
| TTL LOGIC | LOW LOSS | ISOLATION |
| HIGH | C-J2 | C-J1 |
| LOW | C-J1 | C-J2 |

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches
 TOLERANCES ARE: [mm]
 .XX ± .01 [±.25]
 .XXX ± .001 [±.025]

* 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 SPDT From 70 MHz to 26.5 GHz Rated at +27 dBm | | DWG NO FMSW2010 | | CAGE CODE 3FKR5 |
| CAD FILE | 102615 | SHEET | SCALE N/A | SIZE A 2233 |