



SMA SPDT PIN Diode Switch from 30 MHz to 530 MHz Rated at 5 Watts

The FMSW2047 is a Single Pole Double Throw (SPDT) PIN Diode Switch that operates over a frequency band from 30 to 530 MHz. Electrical performance includes max insertion loss of 1.0 dB, min isolation of 50 dB, and max switching speed of 0.15 μ s. The design requires voltage controls of +5 Vdc, with an operational temperature range of -40°C to +85°C. External connectors include solder terminals and Field Replaceable SMA female connectors. Conforms to MIL-STD for Shock, Vibration, Altitude, and Humidity.

Electrical Specification	ns
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TTL Control Logic	Off/Isolation: "0"
	On/Low Loss: "1"

Description	Min	Тур	Max	Units
Frequency Range	30		530	MHz
Impedance		50		Ohms
VSWR		1.2:1	1.5:1	
Insertion Loss			1	dB
Isolation		60		dB
Switching Time		150	200	ns
Input Power (CW)			5	Watts
Current		1		mA
Operating Temperature	-40		+85	deg C

Mechanical Specifications

0.093 lbs [42.18 g]
Reflective, SPDT
SMA Female
Solder Pin

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +125 deg C

Humidity MIL-STD-202F, Method 103B, Condi-

tion B

Shock MIL-STD-202F, Method 213B, Condi-

tion B

Vibration MIL-STD-202F, Method 204D, Condi-

tion B

Altitude MIL-STD-202F, Method 105C, Condi-

tion B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- SPDT Reflective Switch
- 30 MHz to 530 MHz
- Insertion Loss 1.0 dB max
- Isolation 50 dB
- Power Input +37 dBm CW max
- Switching Time: 0.15 μs
- Field replaceable SMA connetors
- Mil Spec Compliant

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

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SMA SPDT PIN Diode Switch from 30 MHz to 530 MHz Rated at 5 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA SPDT PIN Diode Switch from 30 MHz to 530 MHz Rated at 5 Watts FMSW2047

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/sma-spdt-pin-diode-switch-530-mhz-5-watts-fmsw2047-p.aspx

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