

FMSW2020 DATA SHEET

2.92mm PIN Diode Switch SPST From 2 GHz to 40 GHz Rated at +30 dBm

The FMSW2020 is an SPST ABSORPTIVE PIN DIODE SWITCH that operates over a wide frequency band from 2 to 40 GHz. Port 2 is terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes max. insertion loss of 5dB, max return loss of -5dB, min. isolation of 30dB, and max. switching speed of 150nsec. 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 2.92mm female connectors.

Electrical Specifications

TTL Control Logic

Off/Isolation: 0 On/Low Loss: 1

Description	Min	Тур	Max	Units
Frequency Range	2		40	GHz
Impedance		50		Ohms
Return Loss			-5	dB
Insertion Loss			5	dB
Isolation	30			dB
Switching Time			150	ns
Input Power (CW)			1	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

1.2 in [30.48 mm]	
1.2 in [30.48 mm]	
0.6 in [15.24 mm]	
Connectorized Module	
SPST, Absorptive	
2.92mm Female	
Pin	

Environmental Specifications

Temperature Operating Range ESD Sensitivity

-30 to +60 deg C ESD Sensitive Material. Transport material in Approved ESD bags. Handle only in ESD Workstation.





Features:

- SPST Absorptive Switch
- 2 GHz to 40 GHz
- Insertion Loss 5 dB max
- Isolation 30 dB min
- Power Input +30 dBm CW max

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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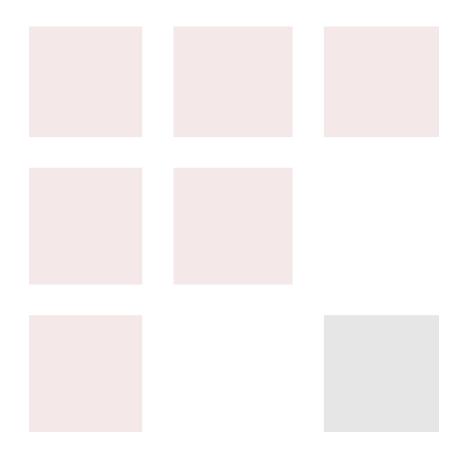




Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

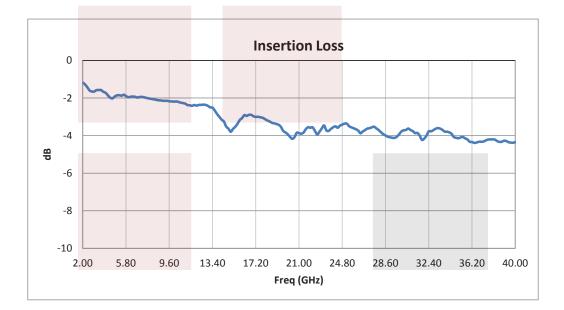
Notes:







Return Loss 0 -10 -20 æ -30 ••••• Port 1 -40 Port 2 -50 21.00 40.00 2.00 5.80 9.60 13.40 17.20 24.80 28.60 32.40 36.20 Freq (GHz)



Typical Performance Data







2.92mm PIN Diode Switch SPST From 2 GHz to 40 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: 2.92mm PIN Diode Switch SPST From 2 GHz to 40 GHz Rated at +30 dBm FMSW2020

URL: http://www.fairviewmicrowave.com/2.92mm-pin-diode-switch-spst-2-40-ghz-rated-30-dbm-fmsw2020-p.aspx

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