



SP4T Normally Open Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts, 2.92mm

The FMSW6134 is an SP4T Electromechanical Relay Switch that operates over a wide frequency band from DC to 40 GHz and has a rating of 3 Watts input power (CW). Rated for 1M life cycles for high reliability operation, this design uses a Normally Open Actuator with a break before make configuration. The switch exhibits exceptional electrical performance specified from 0.2 dB max for insertion loss and 70 dB min for isolation, and guaranteed over -35°C to +85°C. The assembly requires an operating voltage of +12Vdc. External connectors include solder terminals and 2.92mm female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Polarity SP4T, Reflective Normally Open Break Before Make Positive Common

Description	Min	Тур	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Operating Voltage	10.8	12	13.2	Volts
Actuating Current @ 12 Vo	olts		200	mA
VSWR			2:1	
Insertion Loss			0.9	dB
Isolation	50			dB
Input Power (CW) (at 40 GHz)			3	Watts

JS IN J2

Features:

- Single Pole Four Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Operating Life Min
- Normally Open Actuator
- Insertion Loss 0.9 dB max
- · Isolation 50 dB min
- 3 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications:

- Test & Measurement
- Communications System
- Instrumentation
- · Suitable for Aircraft

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18	18 - 26.5	26.5 - 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	0.9	dB
Isolation, Min	70	60	60	55	50	dB

Mechanical Specifications

Size

Weiaht

Length Width/Diameter Height

Body Material and Plating

Package Type
Operating Life
Switching Time

1.6 in [40.64 mm] 1.75 in [44.45 mm] 1.75 in [44.45 mm]

0.227 lbs [102.97 g]

Aluminum

Connectorized Module

1,000,000 Cycles 15 ms Max Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Connectors

RF Connector Type 2.92mm Female
RF Connector Specification MIL-C-39012
RF Connector Contact Material & Plating Beryllium Copper, Gold

RF Connector Body Material & Plating Passivated Stainless Steel

Control Connector Solder Pin

Environmental Specifications

Temperature

Operating Range -35 to +85 deg C

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

approved ESD Workstation.



Environmental Specification Notes:
Designed to meet MIL-E-5400 and MIL-S-3928

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

Not RoHS Compliant

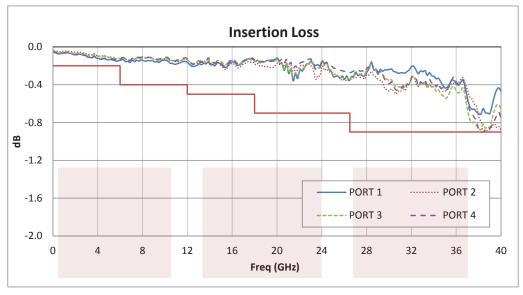
Plotted and Other Data

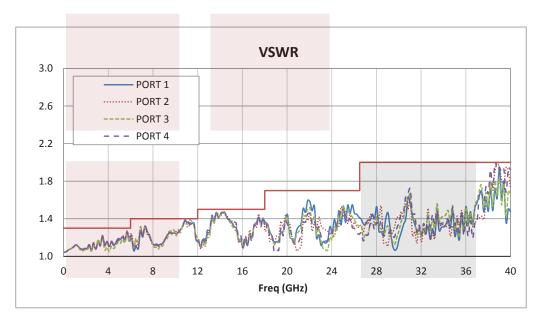
Notes:





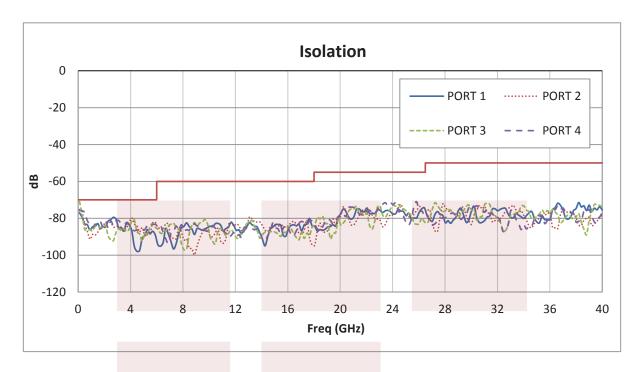
Typical Performance Data











SP4T Normally Open Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts, 2.92mm from Fairview Microwave is instock 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.

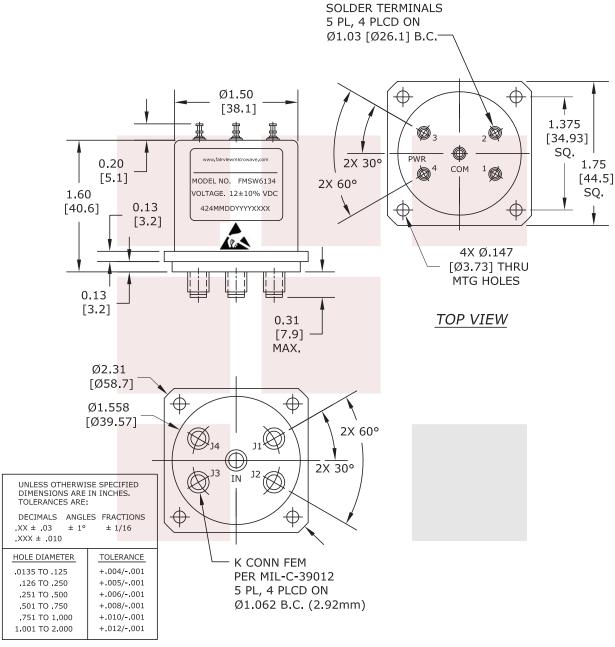
For additional information on this product, please click the following link: SP4T Normally Open Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts, 2.92mm FMSW6134

URL: http://www.fairviewmicrowave.com/sp4t-normally-open-electro-mechanical-relay-switch-fmsw6134-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.





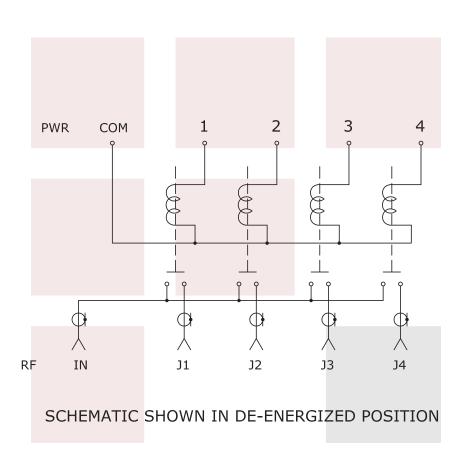


^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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SP4T Normally Open Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts, 2.92mm	DWG NO FMSW6134			CAGE CODE 3FKR5		
	CAD FILE 031915	SHEET	SCALE	N/A	SIZE A	200







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