



SP4T Normally Open Electro-Mechanical Relay Switch From DC to 10 GHz, 160 Watts, N

The FMSW6191 is an SP4T Electromechanical Relay Switch that operates over a wide frequency band from DC to 10 GHz and has a rating of 160 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 0.25 dB max for insertion loss and 80 dB min for isolation, and guaranteed over -25°C to +65°C. The assembly requires an operating voltage of +28Vdc. External connectors include solder terminals and N female connectors.

Electrical Specifications

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

Description	Min	Тур	Max	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Vo	lts	150		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW) (at 10 GHz)			160	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8	8 - 10			GHz
VSWR, Max	1.25:1	1.4:1	1.6:1			
Insertion Loss, Max	0.25	0.4	0.6			dB
Isolation, Min	80	70	60			dB

Mechanical Specifications

Size

Length 2.3 in [58.42 mm]
Width/Diameter 2.47 in [62.74 mm]
Height 2.47 in [62.74 mm]
Weight 1.156 lbs [524.35 g]
Body Material and Plating Aluminum

Package Type Connectorized Module

Operating Life 1,000,000 Cycles Switching Time 50 ms Max



Features:

- Single Pole Four Throw Relay Switch
- DC to 10 GHz Frequency Range
- 1M Cycle Operating Life Min
- Normally Open Actuator
- Insertion Loss 0.6 dB max
- · Isolation 60 dB min
- 160 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications:

- Test & Measurement
- Communications System
- Instrumentation

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Connectors

RF Connector Type N Female

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 -25 to +65 deg C

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

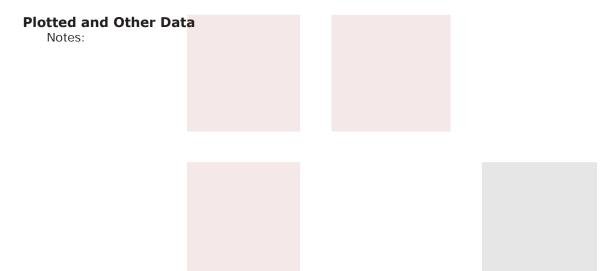
approved ESD Workstation.



Environmental Specification Notes: Designed to Meet MIL-DTL-3928

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

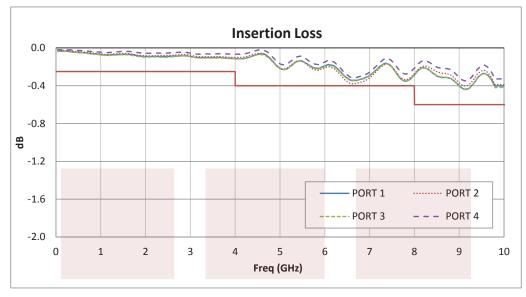
Not RoHS Compliant

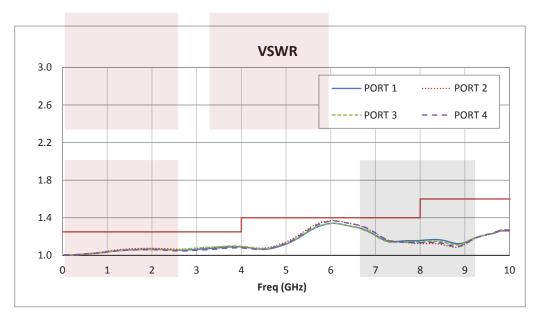






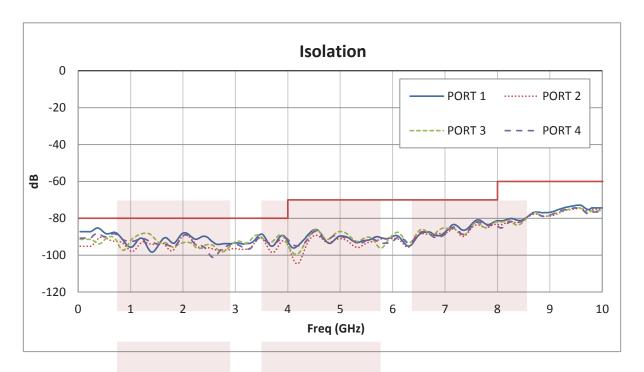
Typical Performance Data











SP4T Normally Open Electro-Mechanical Relay Switch From DC to 10 GHz, 160 Watts, N 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.

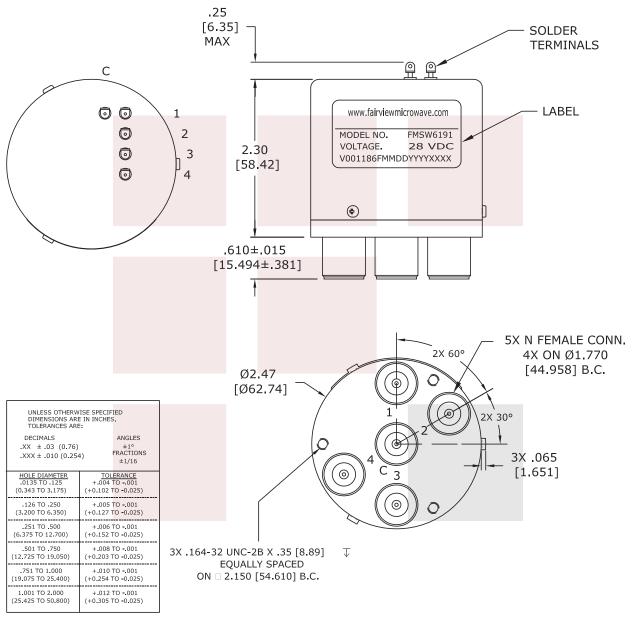
For additional information on this product, please click the following link: SP4T Normally Open Electro-Mechanical Relay Switch From DC to 10 GHz, 160 Watts, N FMSW6191

URL: http://www.fairviewmicrowave.com/sp4t-normally-open-electro-mechanical-relay-switch-fmsw6191-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.





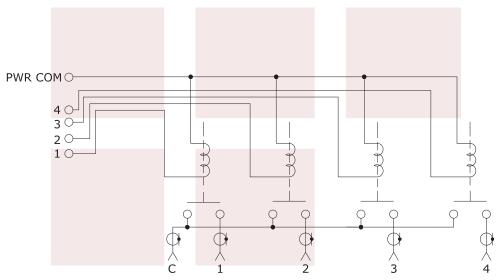


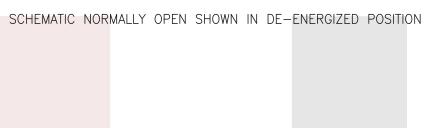
^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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SP4T Normally Open Electro-Mechanical Relay Switch From DC to 10 GHz, 160 Watts, N	DWG NO FMSW6191			CAGE CODE 3FKR5		
	CAD FILE 051515	SHEET	SCALE N/A		SIZE A	2233









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