



SPDT Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, N

The FMSW6151 is an SPDT Electromechanical Relay Switch that operates over a wide frequency band from DC to 12.4 GHz and has a rating of 50 Watts input power (CW). Rated for 1M life cycles for high reliability operation, this design uses a Failsafe Actuator with a break before make configuration. The switch exhibits exceptional electrical performance specified from 0.2 dB max for insertion loss and 80 dB min for isolation, and guaranteed over -55°C to +85°C. The assembly requires an operating voltage of +28Vdc. External connectors include solder terminals and N female connectors.

Switch Type SPDT, Reflective
Actuator Type Failsafe
Switching Sequence Break Before Make

Description	Min	Тур	Max	Units	
Frequency Range	DC		12.4	GHz	
Impedance		50		Ohms	
Operating Voltage		28		Volts	
Actuating Current @ 28 Vo	lts	130		mA	
VSWR			1.6:1		
Insertion Loss			0.6	dB	
Isolation	60			dB	
Input Power (CW) (at 12.4 GHz)			50	Watts	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 2	2 - 4	4 - 12.4			GHz
VSWR, Max	1.15:1	1.2:1	1.6:1			
Insertion Loss, Max	0.2	0.25	0.6			dB
Isolation, Min	80	80	60			dB

Mechanical Specifications

Size

 Length
 1.61 in [40.89 mm]

 Width/Diameter
 2.46 in [62.48 mm]

 Height
 0.9 in [22.86 mm]

 Weight
 0.53 lbs [240.4 g]

Body Material and Plating Aluminum

Package Type Connectorized Module

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



Features:

- Single Pole Double Throw Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Operating Life Min
- Failsafe Actuator
- Insertion Loss 0.6 dB max
- · Isolation 60 dB min
- 50 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 -55 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-DTL-3928

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

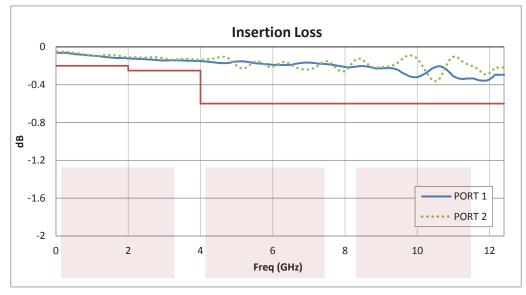
Not RoHS Compliant

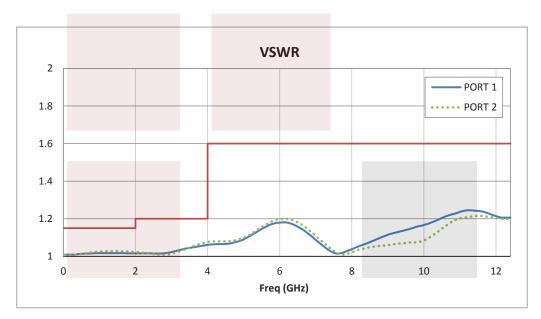






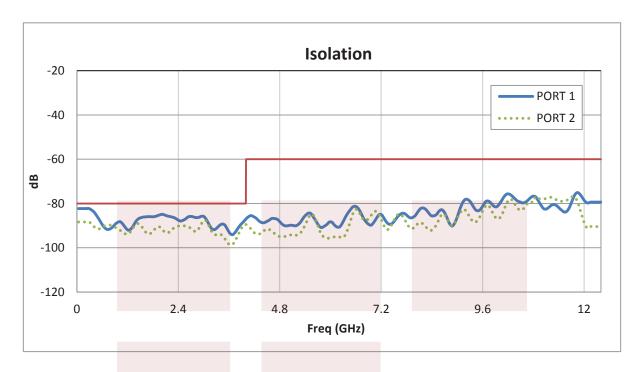
Typical Performance Data











SPDT Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, N 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: SPDT Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, N FMSW6151

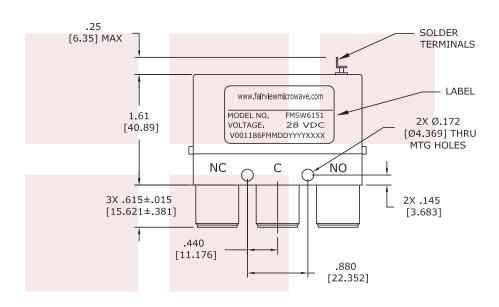
URL: http://www.fairviewmicrowave.com/spdt-failsafe-electro-mechanical-relay-switch-fmsw6151-p.aspx

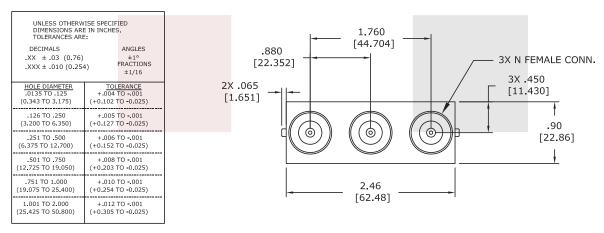
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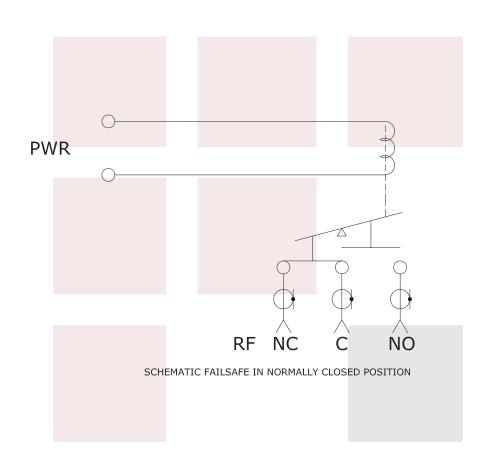


^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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SPDT Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, N	DWG NO FMSW6151			CAGE CODE 3FKR5		
	CAD FILE 051515	SHEET	SCAL	E N/A	SIZE A	2233







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