

FMSW6162 DATA SHEET

SPDT Latching Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts with Self Cut Off, Diodes, N

The FMSW6162 is an SPDT Electromechanical Relay Switch that operates over a wide frequency band from DC to 12.4 GHz and has a rating of 160 Watts input power (CW). Rated for 1M life cycles for high reliability operation, this design uses a Latching Actuator with a break before make configuration, self cut off circuitry and suppression diodes. 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 +12Vdc. External connectors include solder terminals and N female connectors.

Flectrical	Specifications
Electrical	Specifications

Switch Type Actuator Type Switching Sequence Actuator Options SPDT, Reflective Latching Break Before Make Self Cut Off, Diodes

Description	Min	Тур	Max	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Vo	olts	200		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW) (at 12.4 GHz)			160	Watts

Features: • Single Pole

- Single Pole Double Throw Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Operating Life Min
- Latching Actuator
- Self Cut Off, Suppression Diodes
- 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

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 Width/Diameter Height

Weight

Body Material and Plating

Package Type

Operating Life Switching Time 2.2 in [55.88 mm] 2.46 in [62.48 mm] 0.9 in [22.86 mm]

0.53 lbs [240.4 g] Aluminum

Connectorized Module

1,000,000 Cycles 20 ms Max Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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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

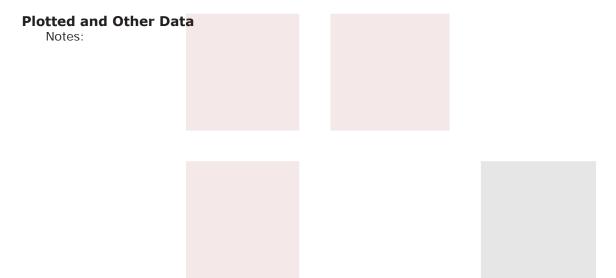
ESD Sensitivity ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



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

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

Not RoHS Compliant

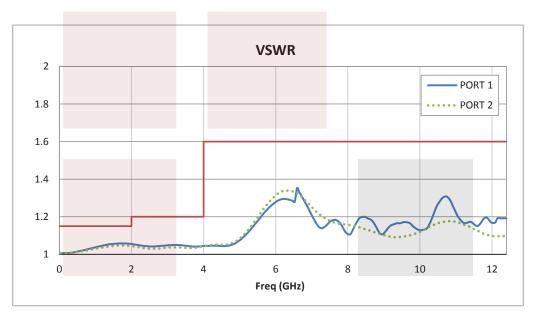






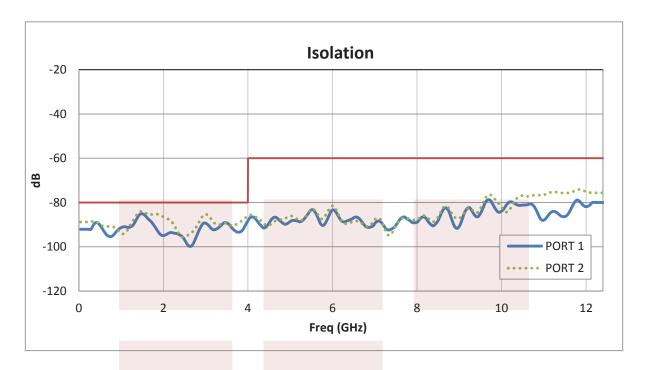
Typical Performance Data











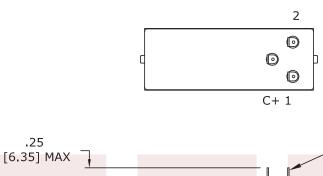
SPDT Latching Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts with Self Cut Off, Diodes, N from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

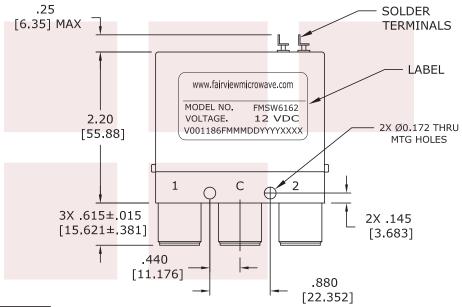
For additional information on this product, please click the following link: SPDT Latching Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts with Self Cut Off, Diodes, N FMSW6162

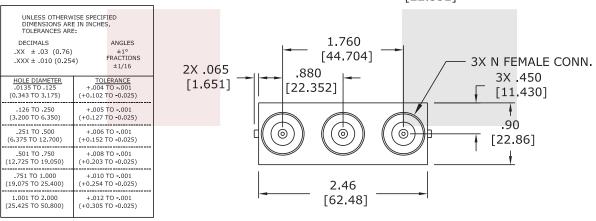
URL: http://www.fairviewmicrowave.com/spdt-latching-electro-mechanical-relay-switch-self-cut-off-fmsw6162-p.aspx

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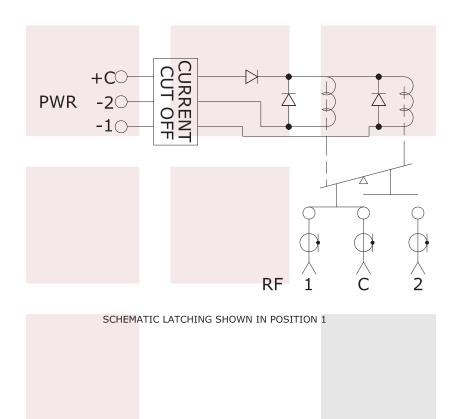


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SPDT Latching Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts with Self Cut Off, Diodes, N	DWG NO FMSW6162			CAGE CODE 3FKR5		
	CAD FILE 051515	SHEET	SCALE	E N/A	SIZE A	2233







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