

FMSW6114 **DATA SHEET**

Transfer Latching Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts with Self Cut Off, Diodes, SMA

The FMSW6114 is a Transfer Electromechanical Relay Switch that operates over a wide frequency band from DC to 26.5 GHz and has a rating of 20 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 -25°C to +65°C. The assembly requires an operating voltage of +12Vdc and is certified as RoHS compliant. External connectors include solder terminals and SMA female connectors.

Electrical Specifications

Switch Type **Actuator Type** Switching Sequence **Actuator Options** Polarity

Transfer, Reflective Latching Break Before Make Self Cut Off, Diodes Positive Common

Description	Min	Тур	Max	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Vo	olts	335		mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	60			dB
Input Power (CW)	_		20	Watts

Performance by Frequency

(at 26.5 GHz)

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8	8 - 12	12 - 18	18 - 26.5	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.5:1	
Insertion Loss, Max	0.2	0.3	0.4	0.5	0.5	dB
Isolation, Min	80	75	70	60	60	dB

Mechanical Specifications

Size

Lenath 1.75 in [44.45 mm] Width/Diameter 2.16 in [54.86 mm] Height 1.363 in [34.62 mm] Weight 0.33 lbs [149.69 g] Body Material and Plating Aluminum Package Type Connectorized Module

Operating Life 1,000,000 Cycles Switching Time 20 ms Max



Features:

- Transfer Relay Switch
- DC to 26.5 GHz Frequency Range
- 1M Cycle Operating Life Min
- Latching Actuator
- Self Cut Off, Suppression Diodes
- Insertion Loss 0.5 dB max
- Isolation 60 dB min
- 20 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications:

- Test & Measurement
- Communications System
- Instrumentation

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Connectors

RF Connector Type

RF Connector Contact Material & Plating Beryllium Copper, Gold RF Connector Body Material & Plating

Control Connector

SMA Female

Passivated Stainless Steel

Solder Pin

Environmental Specifications Temperature

Operating Range **ESD Sensitivity**

-25 to +65 deg C

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)

RoHS Compliant

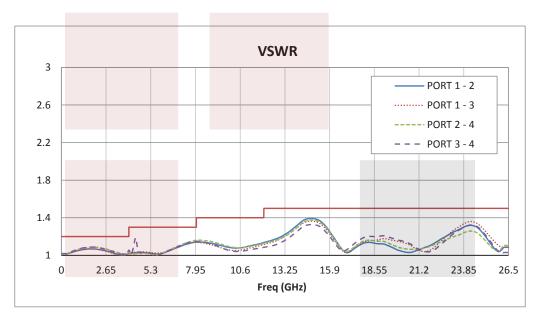
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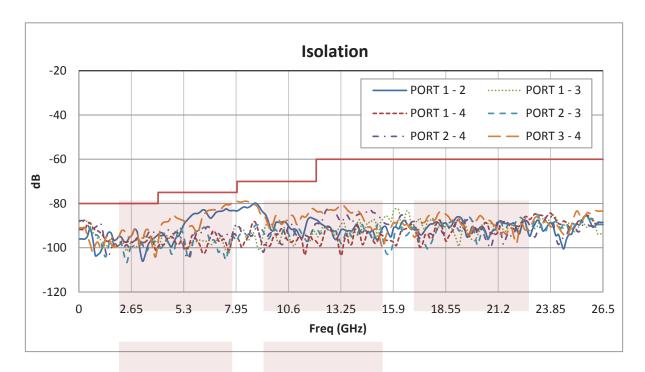


Typical Performance Data









Transfer Latching Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts with Self Cut Off, Diodes, SMA 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.

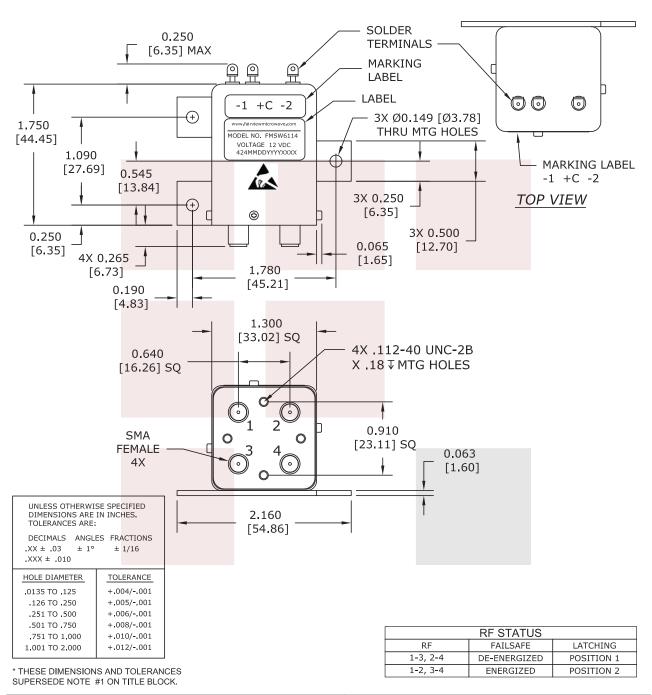
For additional information on this product, please click the following link: Transfer Latching Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts with Self Cut Off, Diodes, SMA FMSW6114

URL: http://www.fairviewmicrowave.com/transfer-latching-electro-mechanical-relay-switch-self-cut-off-fmsw6114-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.



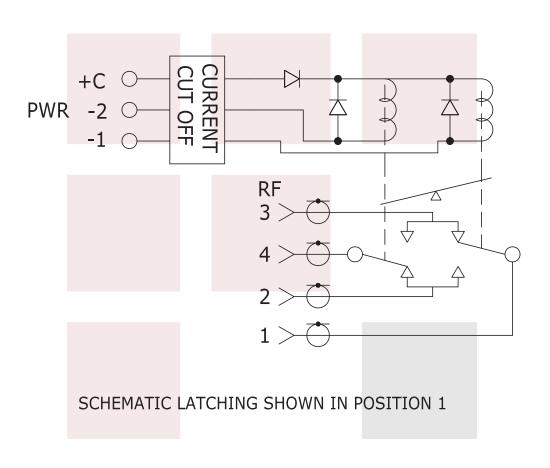




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Transfer Latching Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts with Self Cut Off, Diodes, SMA	DWG NO FMSW6114			CAGE CODE 3FKR5		
	CAD FILE 030915	SHEET	SCALE	N/A	SIZE A	200







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