

FMSW6110 DATA SHEET

Transfer Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA

The FMSW6110 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 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 -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	Specification	S
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Switch Type
Actuator Type
Switching Sequence

Transfer, Reflective

Failsafe

Break Before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Vo	lts	375		mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	60			dB
Input Power (CW) (at 26.5 GHz)			20	Watts

Performance by Frequency

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

 Length
 1.75 in [44.45 mm]

 Width/Diameter
 2.16 in [54.86 mm]

 Height
 1.363 in [34.62 mm]

 Weight
 0.348 lbs [157.85 g]

Body Material and Plating Aluminum

Package Type Connectorized Module

Operating Life 1,000,000 Cycles Switching Time 35 ms Max



Features:

- Transfer Relay Switch
- DC to 26.5 GHz
 Frequency Range
- 1M Cycle Operating Life Min
- Failsafe Actuator
- 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

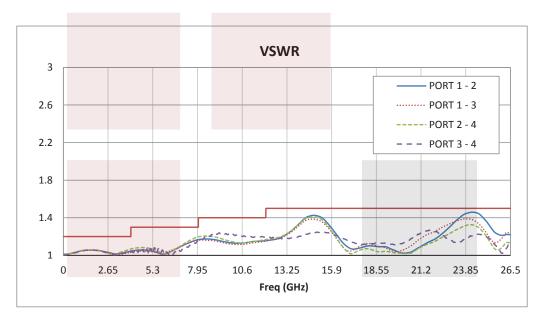
Plotted and Other Dat Notes:	a	





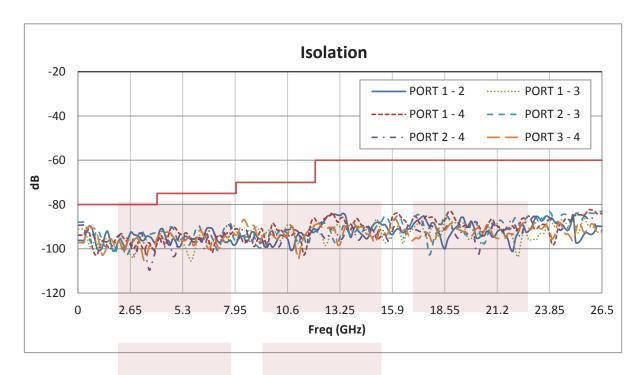
Typical Performance Data











Transfer Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA 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.

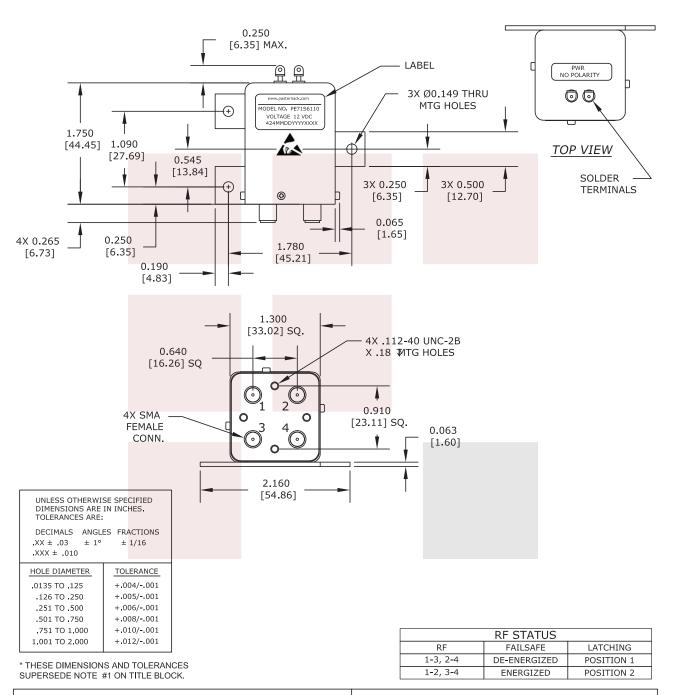
For additional information on this product, please click the following link: Transfer Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA FMSW6110

URL: http://www.fairviewmicrowave.com/transfer-failsafe-electro-mechanical-relay-switch-fmsw6110-p.aspx

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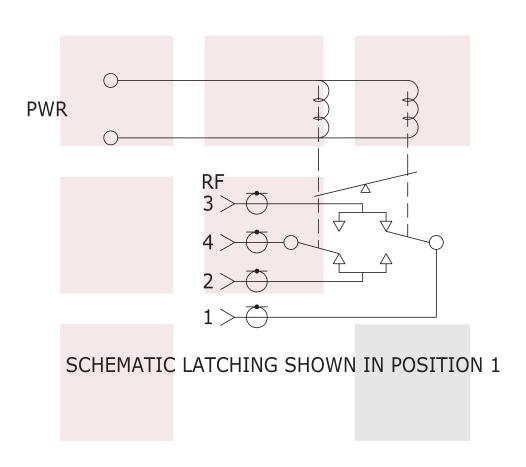




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Transfer Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA	DWG NO FMSW6110			CAGE CODE 3FKR5		
	CAD FILE 012516	SHEET	SCAL	E N/A	SIZE A	2233







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