



Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts, N

The FMSW6175 is a Transfer 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 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 +28Vdc. External connectors include solder terminals and N female connectors.

Switch Type Actuator Type Switching Sequence Transfer, Reflective

Failsafe

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	260		mA
VSWR			1.45:1	
Insertion Loss			0.4	dB
Isolation	60			dB
Input Power (CW) (at 12.4 GHz)			160	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8	8 - 12.4			GHz
VSWR, Max	1.2:1	1.3:1	1.45:1			
Insertion Loss, Max	0.2	0.3	0.4			dB
Isolation, Min	80	70	60			dB

Mechanical Specifications

Size

Length Width/Diameter

Height

Body Material and Plating

Package Type

Operating Life Switching Time 2.06 in [52.32 mm] 2 in [50.8 mm] 2 in [50.8 mm]

0.875 lbs [396.89 g]

Aluminum

Connectorized Module

1,000,000 Cycles 50 ms Max



Features:

- Transfer Relay Switch
- DC to 12.4 GHz
 Frequency Range
- 1M Cycle Operating Life Min
- Failsafe Actuator
- Insertion Loss 0.4 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

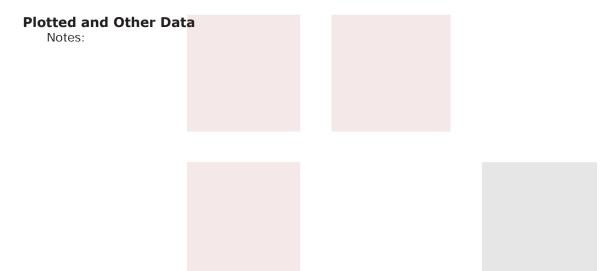
approved ESD Workstation.



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

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

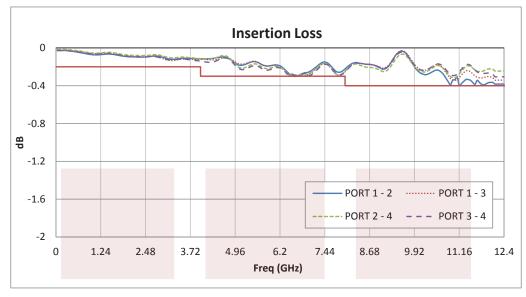
Not RoHS Compliant

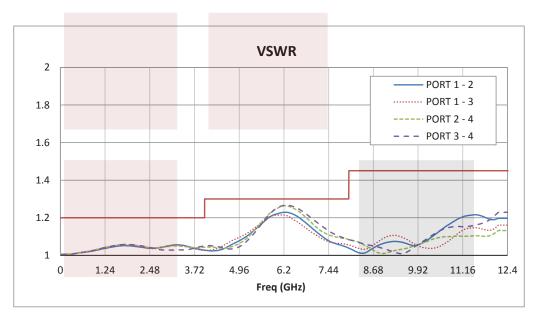






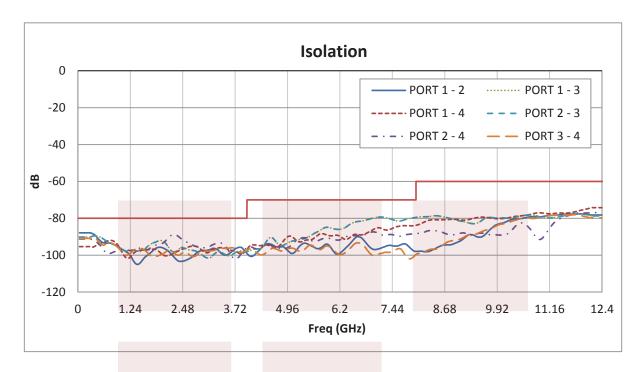
Typical Performance Data











Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 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.

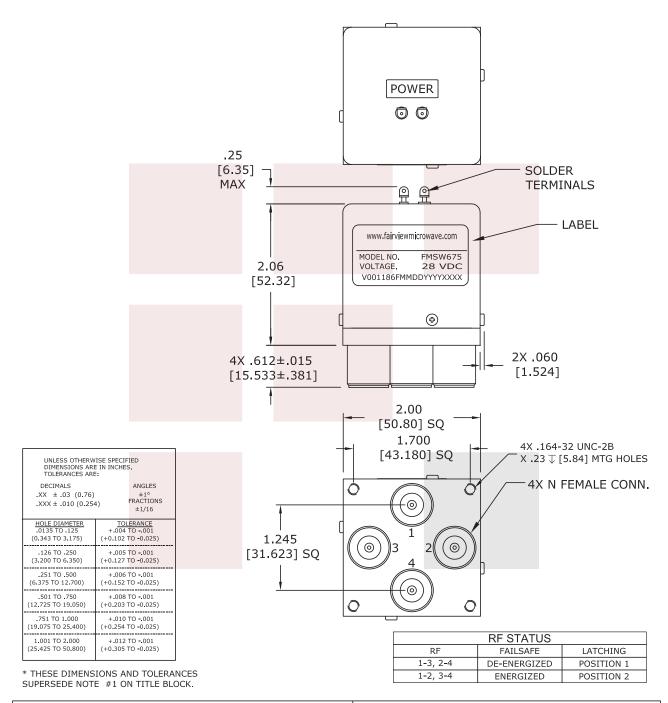
For additional information on this product, please click the following link: Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts, N FMSW6175

URL: http://www.fairviewmicrowave.com/transfer-failsafe-electro-mechanical-relay-switch-fmsw6175-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.



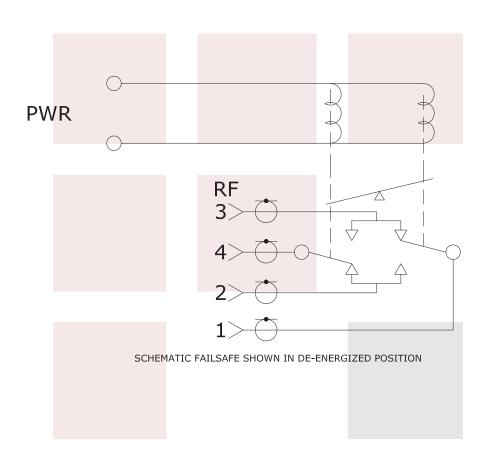




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Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 160 Watts, N	DWG NO FMSW6175			CAGE CODE 3FKR5		
	CAD FILE 042	2815	SHEET	SCAL	E N/A	SIZE A







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