



Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, TNC

The FMSW6203 is a Transfer 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 -25°C to +65°C. The assembly requires an operating voltage of +28Vdc. External connectors include solder terminals and TNC 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			1.7:1		
Insertion Loss			0.6	dB	
Isolation	60			dB	
Input Power (CW) (at 12.4 GHz)			50	Watts	

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Features:

- Transfer 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

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	1.6:1	1.7:1			
Insertion Loss, Max	0.2	0.5	0.6			dB
Isolation, Min	80	65	60			dB

Mechanical Specifications

Size

Length Width/Diameter

Height

Weight

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 Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Connectors

RF Connector Type

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

Control Connector

TNC 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

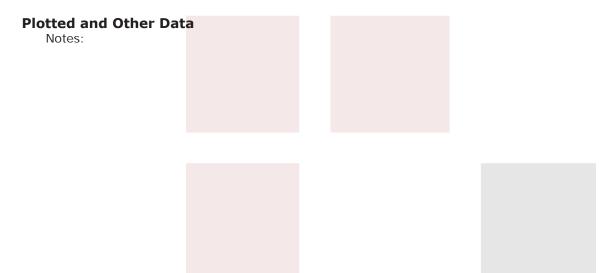
approved ESD Workstation.



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

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

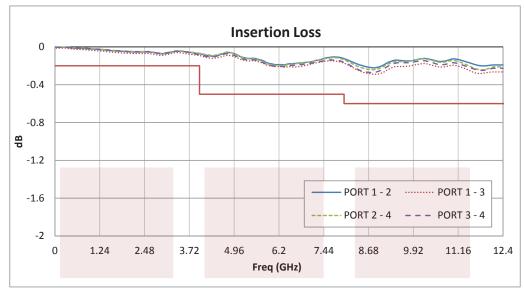
Not RoHS Compliant

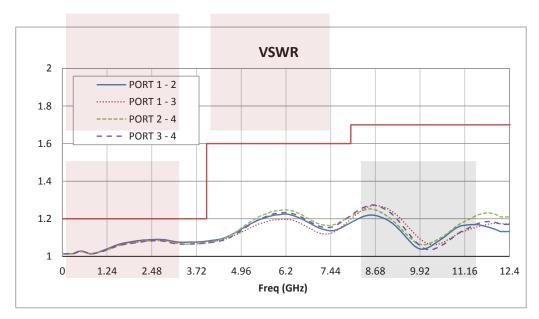






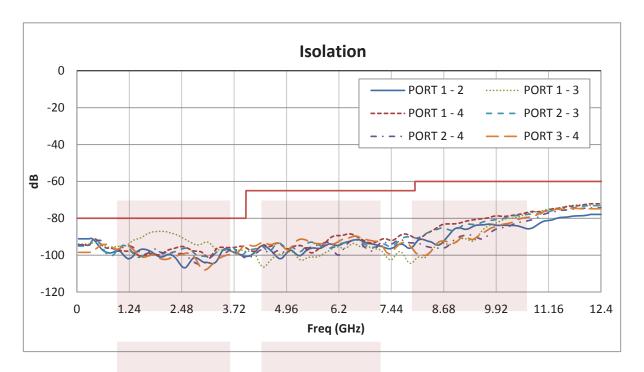
Typical Performance Data











Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, TNC 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.

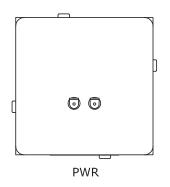
For additional information on this product, please click the following link: Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, TNC FMSW6203

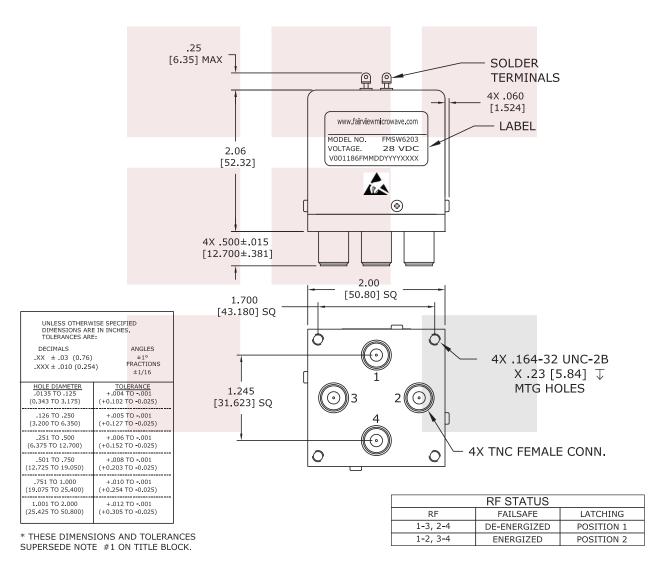
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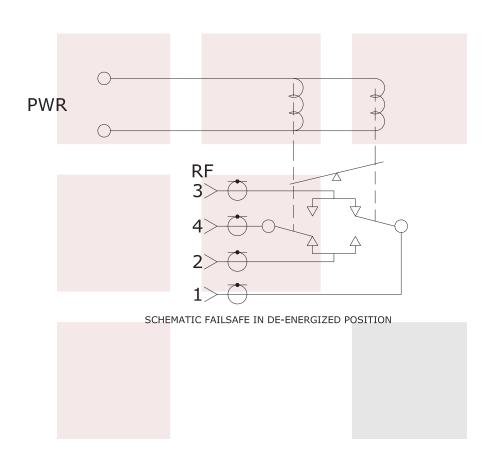




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Transfer Failsafe Electro-Mechanical Relay Switch From DC to 12.4 GHz, 50 Watts, TNC	m PMSW6203 CAGE CODE SFKR!	CAGE CODE 3FKR5			
	CAD FILE 062915 SHEET SCALE N/A SIZE A 223	3			







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