



SPDT Failsafe Electro-Mechanical Relay Switch From DC to 10 GHz, 50 Watts, TNC

The FMSW6199 is an SPDT Electromechanical Relay Switch that operates over a wide frequency band from DC to 10 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.

Flectrical	Specifications
Electrical	Specifications

Switch Type SPDT, Reflective **Actuator Type** Failsafe Switching Sequence Break Before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Vo	lts	125		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW) (at 10 GHz)			50	Watts

Performance by	Freque	ncy				
Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 10				GHz
VSWR, Max	1.2:1	1.6:1				
Insertion Loss, Max	0.2	0.6				dB
Isolation, Min	80	60				dB

Mechanical Specifications

Size Lenath Height

1.71 in [43.43 mm] Width/Diameter 1.76 in [44.7 mm] 0.72 in [18.29 mm] 0.344 lbs [156.04 g]

Body Material and Plating Aluminum

Package Type Connectorized Module

1,000,000 Cycles Operating Life 50 ms Max Switching Time



Features:

- Single Pole Double Throw Relay Switch
- DC to 10 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

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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)

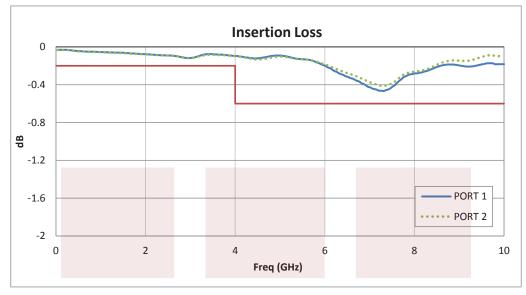
Not RoHS Compliant

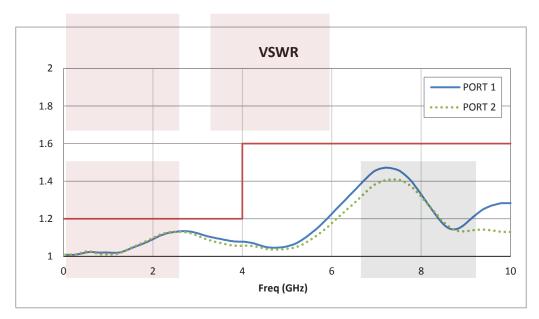
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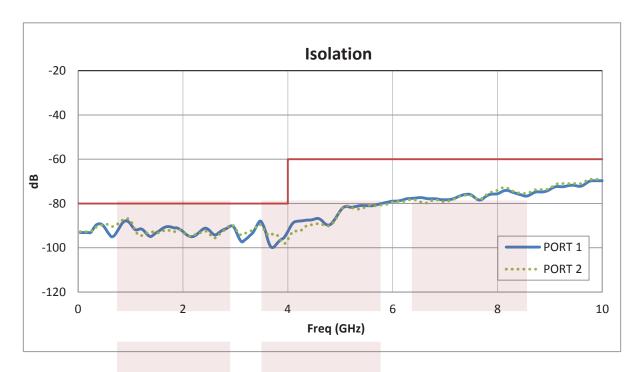
Typical Performance Data











SPDT Failsafe Electro-Mechanical Relay Switch From DC to 10 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.

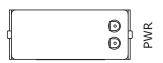
For additional information on this product, please click the following link: SPDT Failsafe Electro-Mechanical Relay Switch From DC to 10 GHz, 50 Watts, TNC FMSW6199

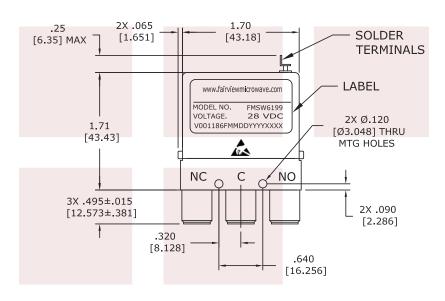
URL: http://www.fairviewmicrowave.com/sp6t-failsafe-electro-mechanical-relay-switch-fmsw6199-p.aspx

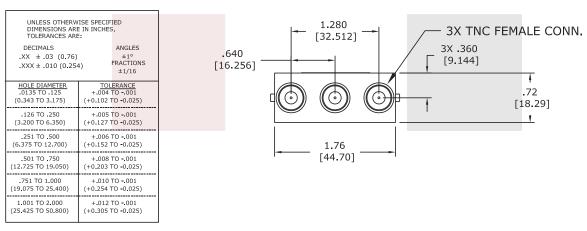
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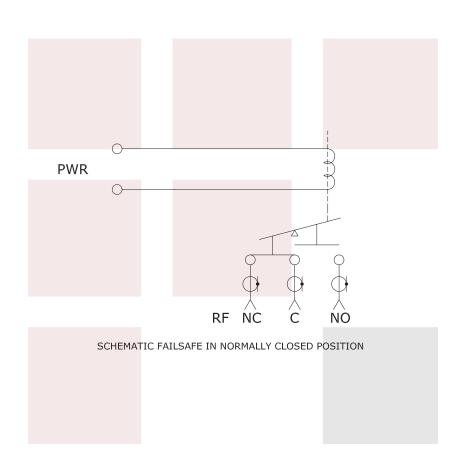


^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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SPDT Failsafe Electro-Mechanical Relay Switch From DC to 10 GHz, 50 Watts, TNC	DWG NO FMSW6199			CAGE CODE 3FKR5		
	CAD FILE 062915	SHEET	SCAL	E N/A	SIZE A	2233







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