



SPDT Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, up to 600W, 28V, N

The FMSW6397 is a Single Pole Double Throw (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 200 Watts of CW input power in a break before make condition. The design features a Failsafe actuator and is rated for 2M life cycles for high reliability operation. Insertion loss is specified as low as 0.3 dB and Isolation up to 90 dB minimum. The Failsafe actuator has a +28 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports N Female connectors and Solder Pins for DC control. The model is guranteed to meet MIL-STD-202 environmental test conditions for shock and vibration.

Electrical Specifications

Switch Type SPDT
Actuator Type Failsafe

Switching Sequence Break before Make

Description	Min	Тур	Max	Units	
Frequency Range	DC		12	GHz	
Impedance		50		Ohms	
Operating Voltage	26	28	30	Volts	
Actuating Set Current @ 28	3 Volts	90		mA	
VSWR		1.25:1	1.4:1		
Insertion Loss		0.3	0.5	dB	
Isolation	70	90		dB	
Input Power (CW)			200	Watts	
Switching Time			20	ms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 1	1 - 4	4 - 8	8 - 12		GHz
VSWR, Max	1.25:1	1.3:1	1.4:1	1.4:1		
Insertion Loss, Max	0.3	0.4	0.4	0.5		dB
Isolation, Min	90	80	80	70		dB
Power In, Typ (CW)	600	300	230	200		Watts

Mechanical Specifications

Size

Weight Body Material and Plating Package Type

Operating Life

0.3805 lbs [172.59 g] Aluminum Connectorized 2,000,000 Cycles



Features:

- Single Pole Double Throw
- DC to 12 GHz Frequency Range
- 2M Cycle Min Operating Life
- +28 Volt DC
- · 200 Watt Avg Power
- Failsafe Actuator
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.3 dB
- VSWR 1.4:1 Max
- · N Female RF connectors
- Solder Pins DC Control
- · Hot Switching Capability
 - Consult Factory
- S-Parameter Data available upon request

Applications:

- High Performance Relay Switch
- Military Communications
- Communications Systems
- Test & Measurement

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Connectors

RF Connector Type N Female

RF Connector Contact Material & Plating
RF Connector Body Material & Plating
Control Connector

Beryllium Copper, Gold
Aluminum, Nickel
Solder Pin

Environmental Specifications Temperature

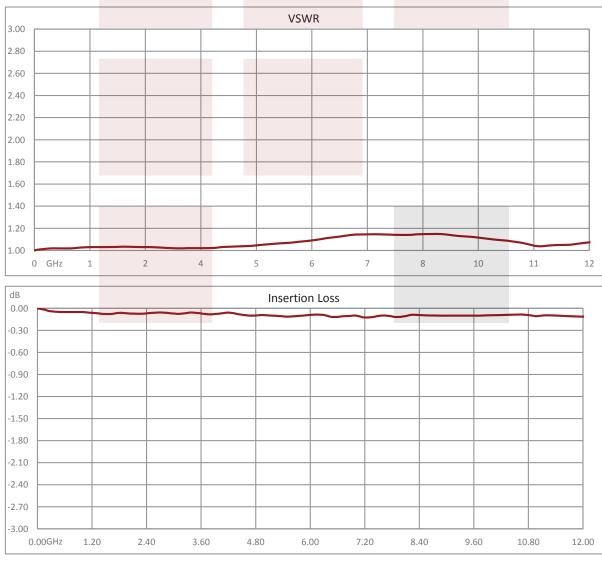
Operating Range -25 to +70 deg C Storage Range -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

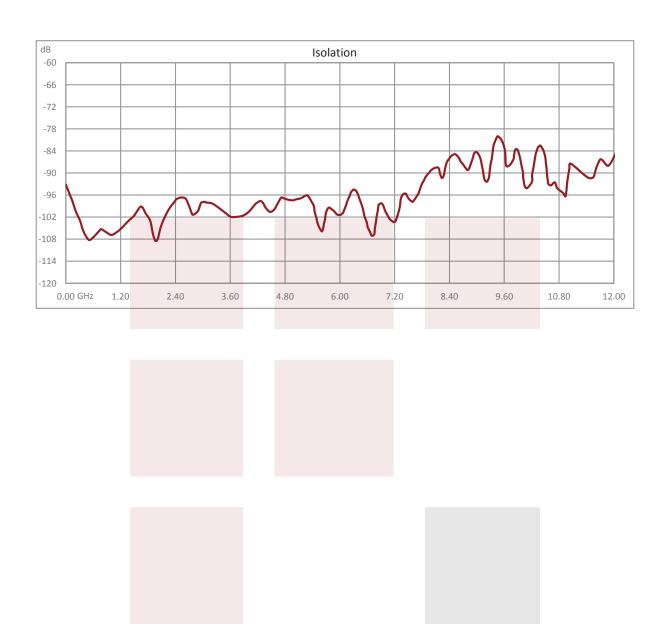
Typical Performance Data



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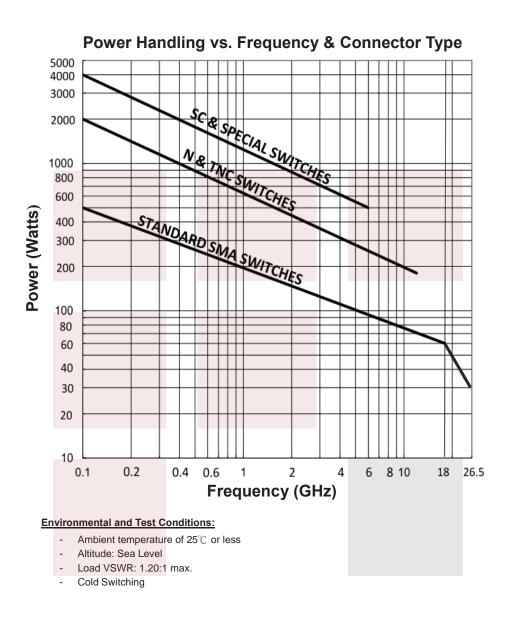
















SPDT Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, up to 600W, 28V, N from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SPDT Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, up to 600W, 28V, N FMSW6397

URL: https://www.fairviewmicrowave.com/spdt-failsafe-12-ghz-electro-mechanical-relay-switch-200w-28v-n-fmsw6397-p. aspx







