



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

The FMSW6399 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 430 Watts of CW input power in a break before make condition. The design features a Latching actuator with 1W Indicators, and is rated for 5M life cycles for high reliability operation. Insertion loss is specified as low as 0.3 dB maximum and Isolation up to 90 dB minimum. Operating voltage is +28 V and performance is guaranteed over -25°C to +70°C. The rugged and compact package assembly supports N Female connectors and Solder Pins for DC Control. The model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type SPDT
Actuator Type Latching
Switching Sequence Break before Make
Actuator Options Indicators
Indicator Rating 1 Watt / 32 Volts / 125 mA

Description	Min	Тур	Max	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Set Current @ 28 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

Body Material and Plating Package Type Operating Life Aluminum Connectorized 5,000,000 Cycles



Features:

- Single Pole Double Throw
- DC to 12 GHz Frequency Range
- Isolation greater than 90 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 200 Watt Power Hot Switching
- Latching Actuator
- 1 Watt Indicators
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.25:1 max
- N Female RF connectors
- Solder Pins for 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 CStorage Range -55 to +100 deg C

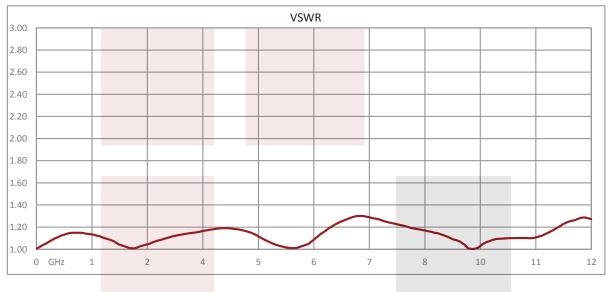
Shock MIL-STD-202 Method 213, Cond. D 500G Non Operating Vibration MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

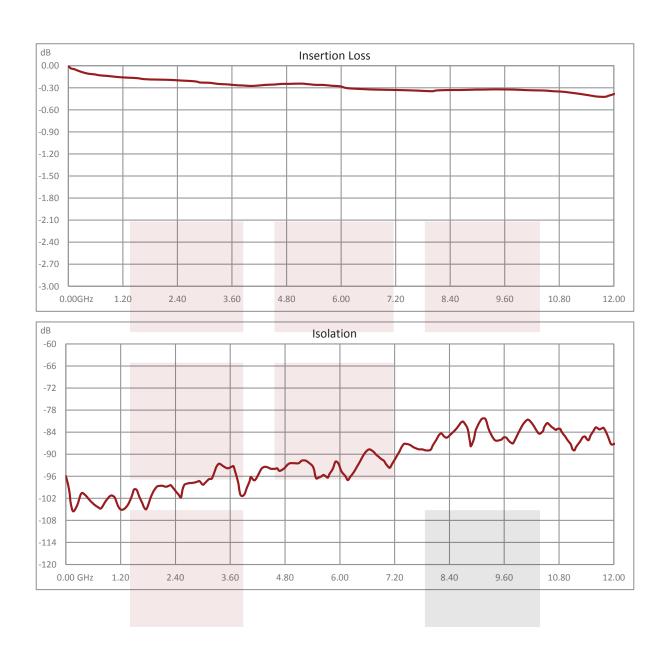
Notes:

Typical Performance Data



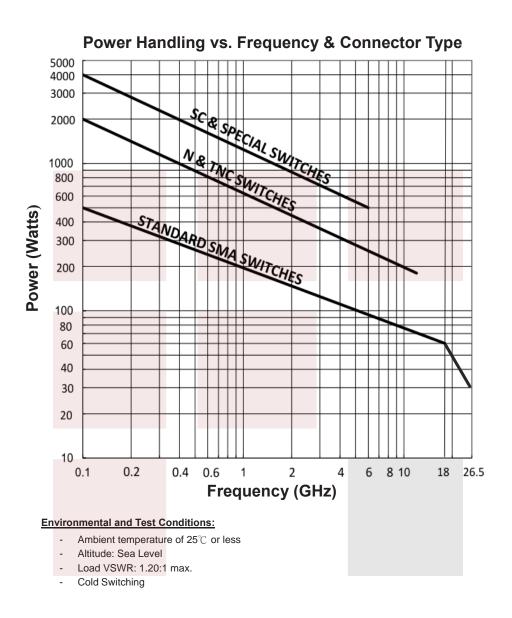
















SPDT Latching DC to 12 GHz Electro-Mechanical Relay Switch, Indicators, up to 600W, 28V, N from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is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

For additional information on this product, please click the following link: SPDT Latching DC to 12 GHz Electro-Mechanical Relay Switch, Indicators, up to 600W, 28V, N FMSW6399

URL: https://www.fairviewmicrowave.com/spdt-latching-12-ghz-electro-mechanical-relay-switch-indicators-200w-28v-n-fmsw6399-p.aspx







