

FMSW6469 DATA SHEET

SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 2M Lifecycles, 28V, TTL, Indicators, SMA

The FMSW6469 is a Single Pole Double Throw (SP2T) electromechanical relay switch that operates across a wide frequency range of DC to 26.5 GHz and can handle up to 90W of average power in a break before make condition. The design is rated for 2 million lifecycles and features a Failsafe Actuator. output port is terminated in 50 ohms when swtiched in the isolation (off) state. Additional features include TTL control logic, and indicators. Impressive typical performance includes 0.3 dB insertion loss and isolation greater than 80 dB. This switch requires +28Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports SMA female connectors and solder terminal pins for DC command control functions. And for highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type SPDT, Terminated **Actuator Type** Failsafe Switching Sequence Break Before Make **Actuator Options** Indicators, TTL Logic TTL Control on: 2.4 to 5.5 Volts off: 0 to 0.8 Volts

Description	Min	Тур	Max	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Current @ 28 Vo	lts		200	mA
VSWR		1.3:1	1.7:1	
Insertion Loss		0.3	0.6	dB
Isolation	50	80		dB
Switching Time			20	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18	18 - 26.5		GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.7:1		
Insertion Loss, Max	0.15	0.25	0.35	0.6		dB
Isolation, Min	80	70	60	50		dB

Mechanical Specifications

Size

1.85 in [46.99 mm] Length Width/Diameter 2.25 in [57.15 mm] Height 0.56 in [14.22 mm] Finish NICKEL Package Type Connectorized Operating Life 2,000,000 Cycles



Features:

- Single Pole Double Throw Electromechanical Relay Switch
- DC to 26.5 GHz Frequency Range
- Failsafe Actuator
- TTL Logic Control
- Indicators
- 2M Lifecycle Rating
- Insertion Loss 0.3 dB typ
- Isolation > 80 dB typ
- Internally Terminated
- VSWR as low as 1.2:1 max
- +28 Volt DC Bias
- · Solder Terminal Pins for DC Command Control
- SMA Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 90 Watt Average Power Handling
- 50 Ohm Design
- Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request
- · Rugged Design meets Mil-STD-202 Test Conditions

Applications:

- Aerospace & Defense
- Test & Measurement
- Microwave Radio Systems
- Military & Commercial Communication Systems
- Research & Development
- SATCOM
- Wireless Communications
- Enterprise
- IoT

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Connectors

RF Connector Type SMA Female

Environmental Specifications

Temperature

Operating Range -25 to +65 deg C Storage Range -55 to +100 deg C

Humidity

Moisture resistant or immersion sealing available

Shock

MIL-STD-202 Method 213, Condition D, 500G (non oper)

Vibration

MIL-STD-202 Method 214, Condition D, 10G RMS (non oper)

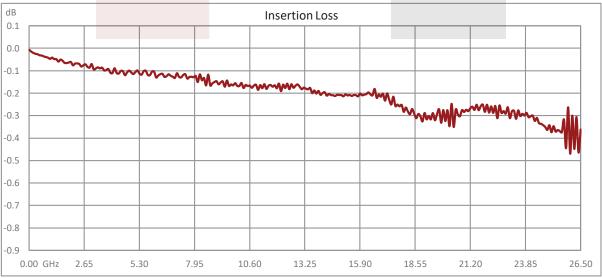
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

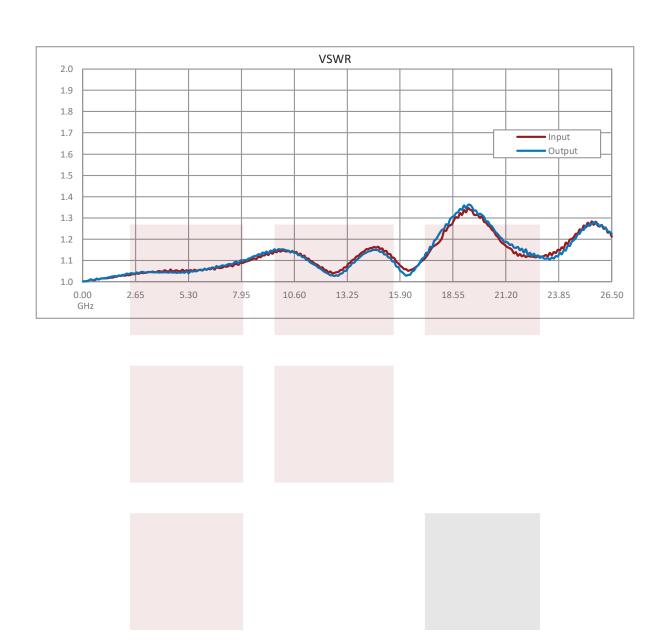




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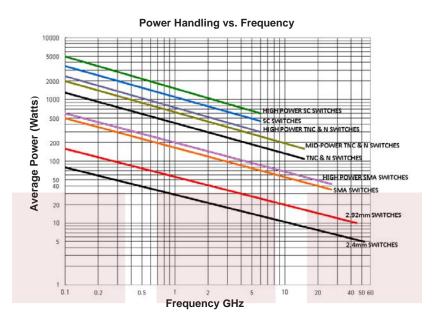


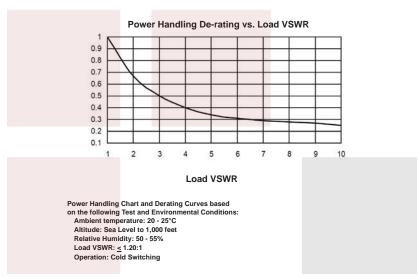
















SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 2M Lifecycles, 28V, TTL, Indicators, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 2M Lifecycles, 28V, TTL, Indicators, SMA FMSW6469

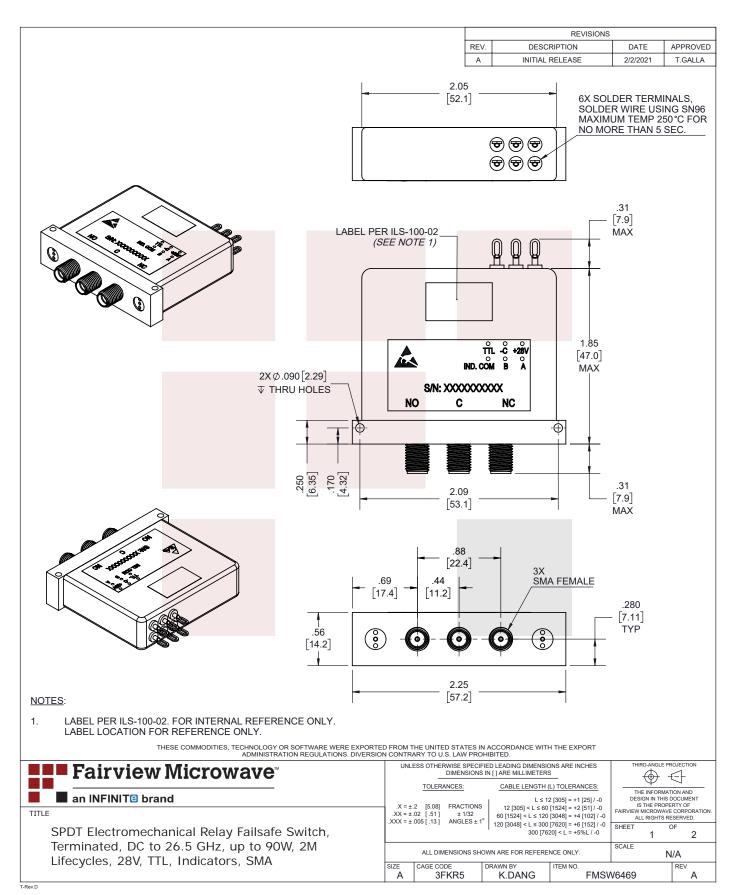
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/spdt-failsafe-26.5-ghz-terminated-electro-mechanical-relay-switch-indica-tors-28v-sma-fmsw6469-p.aspx



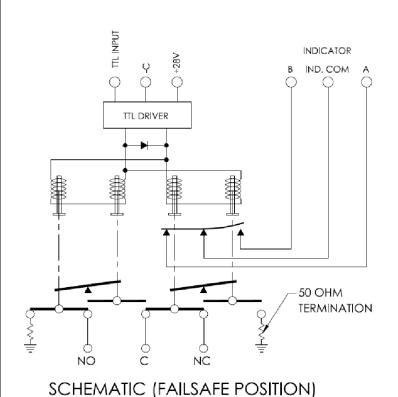












OPERATIONAL				
LOGIC TABLE				
TERMINALS	RF PORTS		INDICATOR	
1	NO	NC	BHND, COM	A-IND. COM
0	OFF	ON	OFF	ON
1	ON	OFF	ON	OFF

POS	RF PATH	TERMINATION
NC	C-NC	NO TERMINATED
NO	C-NO	NC TERMINATED

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TITLE

SPDT Electromechanical Relay Failsafe Switch,
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Lifecycles, 28V, TTL, Indicators, SMA

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