



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

The FMSW6467 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. The output port is terminated in 50 ohms when swtiched in the isolation (off) state. Impressive typical performance includes 0.3 dB insertion loss and isolation greater than 80 dB. This switch requires +28 Vdc 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 control. 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

Description	Min	Тур	Max	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Current @ 28 Volts			200	mA
VSWR		1.3:1	1.7:1	
Insertion Loss		0.3	0.6	dB
Isolation	50	80		dB
Switching Time			15	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

 Length
 1.85 in [46.99 mm]

 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

**Connectors** 

RF Connector Type SMA Female



#### Features:

- Single Pole Double Throw Electromechanical Relay Switch
- DC to 26.5 GHz Frequency Range
- Failsafe Actuator
- 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 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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## **Environmental Specifications**

**Temperature** 

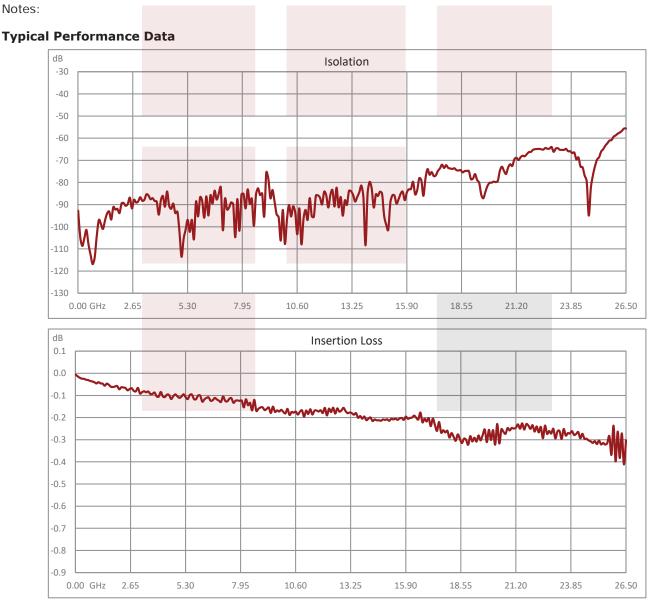
Operating Range -25 to +65 deg C Storage Range -55 to +100 deg C

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)

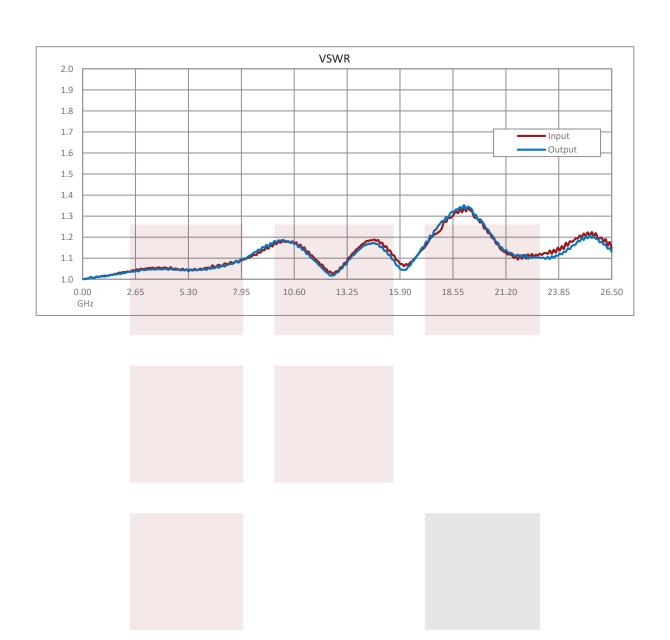
## **Compliance Certifications** (see product page for current document)

### **Plotted and Other Data**



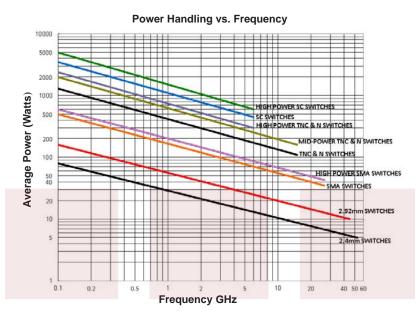


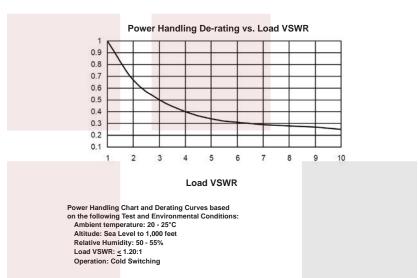
















SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 2M Lifecycles, 28V, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. 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, SMA FMSW6467

URL: https://www.fairviewmicrowave.com/spdt-failsafe-26.5-ghz-terminated-electro-mechanical-relay-switch-28v-sma-fmsw6467-p.aspx

