



SP6T Electromechanical Relay Normally Open Switch, DC to 26.5 GHz, 2M Lifecycles, 20W, 28V, SMA, Solder Pins

The FMSW6487 is a Single Pole Six Throw (SP6T) electromechanical relay switch that operates across a wide frequency range from DC to 26.5 GHz and can handle up to 20 Watts of average power in a break before make condition. The 50 Ohm design is rated for 2M lifecycles and features a Normally Open Actuator where the selected position remains active with constant voltage, all positions are open when voltage is removed. Impressive typical performance includes 0.4 dB insertion loss and isolation greater than 70 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 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 (TA = +25°C, DC Voltage = +28 Vdc)

Switch Type SP6T

Actuator Type Normally Open

Description	Min	Тур	Max	Units
Frequency Range	DC		26.5	GHz
Operating Voltage		+28		Volts
Actuating Current @ +28 \		140	mA	
VSWR		1.3:1	1.8:1	
Insertion Loss		0.4	0.8	dB
Isolation	50	70		dB
Input Power (CW) (at 26.5 GHz)			20	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18	18 - 26.5		GHz
VSWR, Max	1.25:1	1.4:1	1.5:1	1.8:1		
Insertion Loss, Max	0.2	0.4	0.5	0.8		dB
Isolation, Min	70	60	60	50		dB

Mechanical Specifications

Size

Length Width/Diameter	1.75 in [44.45 mm] 1.75 in [44.45 mm]
Height	1.75 in [44.45 mm]
Weight	0.4 lbs [181.44 g]

Connectors

RF Connector Type SMA Female



Features:

- Single Pole Six Throw (SP6T) Electromechanical Relay Switch
- DC to 26.5 GHz Frequency Range
- Normally Open Actuator
- 2M Lifecycle Rating
- Insertion Loss 0.4 dB typ
- Isolation > 70 dB typ
- VSWR as low as 1.25:1 max
- +28 Volt DC Bias
- Solder Terminal Pins for DC Control
- SMA Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 20 Watt Average Power Handling
- 50 Ohm Design
- Hot Switching Capability
 Consult Factory
- 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

Shock MIL-STD-202 Method 213, Condition D, 500G (non oper)
Vibration MIL-STD-202 Method 204, Condition D, 10G RMS (non oper)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





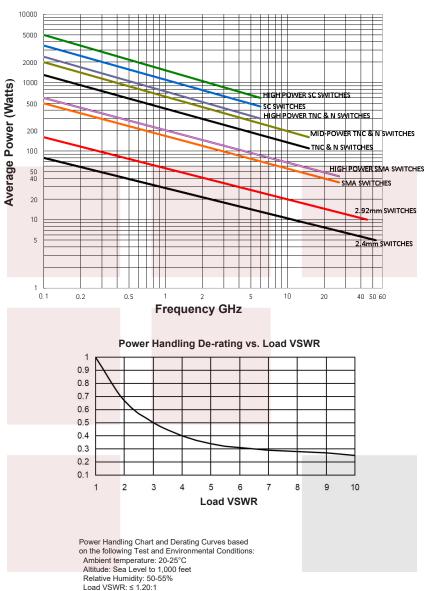








Power Handling vs. Frequency



Operation: Cold Switching

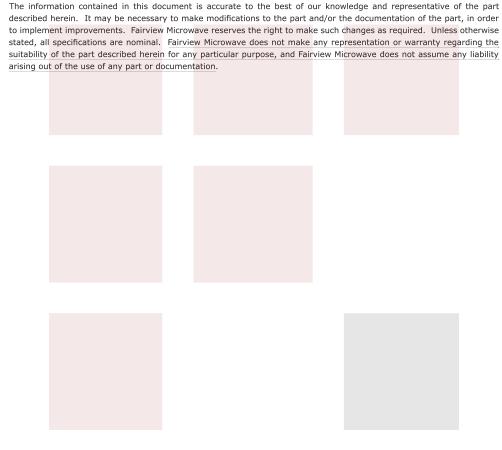




SP6T Electromechanical Relay Normally Open Switch, DC to 26.5 GHz, 2M Lifecycles, 20W, 28V, SMA, Solder Pins from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SP6T Electromechanical Relay Normally Open Switch, DC to 26.5 GHz, 2M Lifecycles, 20W, 28V, SMA, Solder Pins FMSW6487

URL: https://www.fairviewmicrowave.com/sp6t-normally-open-26.5-ghz-electro-mechanical-relay-switch-20w-28v-sma-fmsw6487-p.aspx



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