

FMSW6464 DATA SHEET

SP4T Electromechanical Relay Normally Open Switch DC to 12 GHz, up to 600 Watts, 2M Lifecycles, 12V, N

The FMSW6464 is a Single Pole Six Throw (SP6T) electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 600 Watts of Average power in a break before make condition. The 50 Ohm design is rated for 2 million 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 0.2 dB insertion loss and isolation greater than 80 dB. This switch requires +12Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports N Type 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 Specification	S
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Switch Type	
Actuator Type	
Switching Sequence	
Actuator Options	

SP4T Normally Open Break Before Make Solder Pins

Description	Min	Тур	Max	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Current @ 12 Vo	lts		600	mA
VSWR		1.4:1	1.7:1	
Insertion Loss		0.2	0.5	dB
Isolation	60	80		dB
Input Power (CW) (CW at 400 MHz)			1	kWatts
Switching Time			20	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 1	1 - 4	4 - 12			GHz
VSWR, Max	1.25:1	1.4:1	1.7:1			
Insertion Loss, Max	0.3	0.4	0.5			dB
Isolation, Min	70	60	60			dB
Power In, Max (CW)	600	300	200			Watts



Features:

- Single Pole Six Throw
 Electromechanical Relay Switch
- DC to 12 GHz Frequency Range
- Normally Open Actuator
- 2M Lifecycle Rating
- Insertion Loss 0.2 dB typ
- Isolation >80 dB typ
- VSWR as low as 1.25:1 max
- +12 Volt DC Bias
- Terminal Solder Pins for DC Control
- N Type Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 600 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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Mechanical Specifications

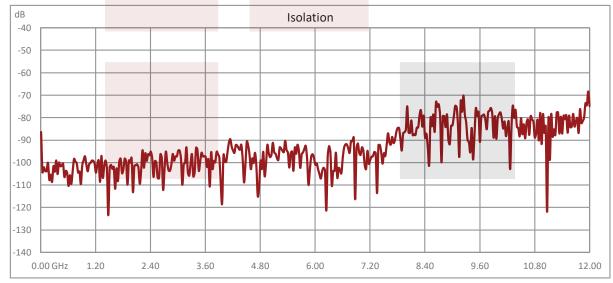
Size Length Width/Diameter Height	2.65 in [67.31 mm] 2.5 in [63.5 mm] 2.5 in [63.5 mm]
Finish Package Type	NICKEL Connectorized
Operating Life	2,000,000 Cycles
Connectors RF Connector Type	N Female
Environmental Specific Temperature Operating Range Storage Range	-25 to +65 deg C -55 to +100 deg C
Humidity Shock Vibration	Moisture resistant or immersion sealing available MIL-STD-202 Method 213, Condition D, 500G (non oper) MIL-STD-202 Method 214, Condition D, 10G RMS (non oper)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

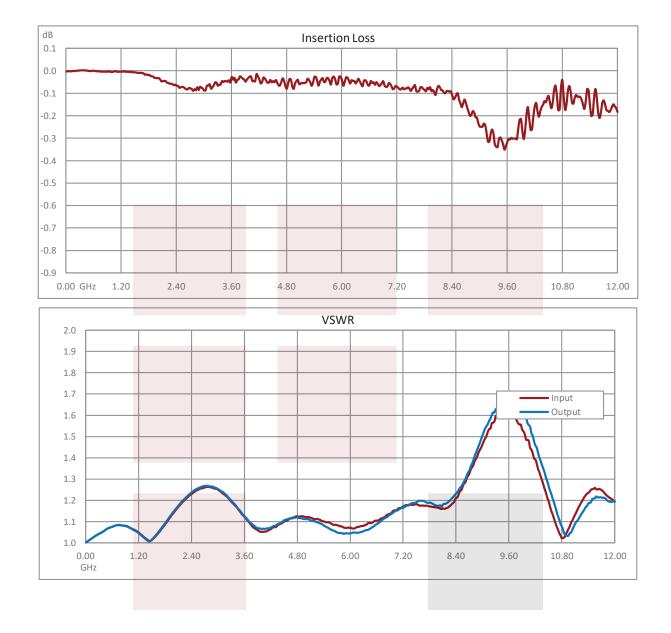
Typical Performance Data



Fairview Microwave



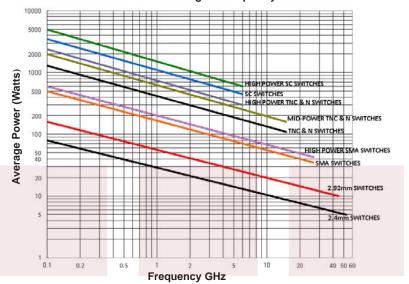
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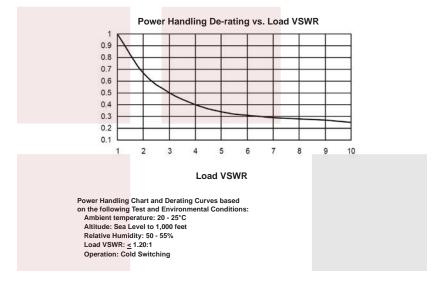






Power Handling vs. Frequency





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SP4T Electromechanical Relay Normally Open Switch DC to 12 GHz, up to 600 Watts, 2M Lifecycles, 12V, 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SP4T Electromechanical Relay Normally Open Switch DC to 12 GHz, up to 600 Watts, 2M Lifecycles, 12V, N FMSW6464

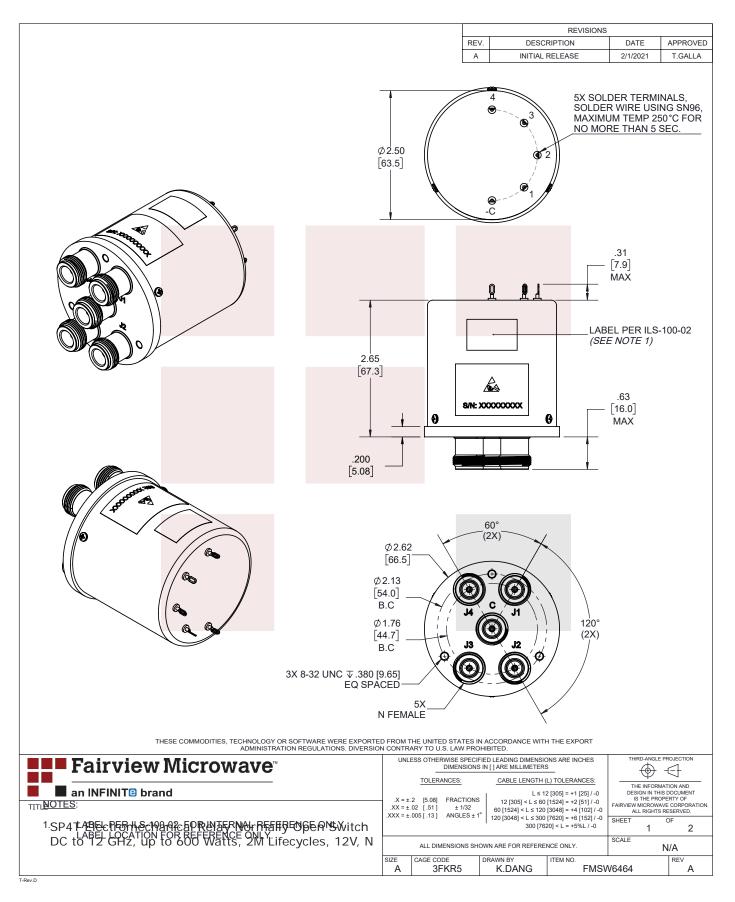
URL: https://www.fairviewmicrowave.com/sp4t-normally-open-12-ghz-electro-mechanical-relay-switch-1000w-12v-n-fmsw6464-p.aspx

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