

FMSW6371 DATA SHEET

SP4T NO DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA

The FMSW6371 is a Single Pole Four Throw (SP4T) electromechanical relay switch that operates across a wide frequency range of DC to 26.5 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Normally Open actuator and is rated for 2M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 80 dB typical. The Normally Open actuator has 50 Ohm Terminations and a +28 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and a 15 Pin D-Sub Connector for DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type Actuator Type Switching Sequence SP4T, Terminated Normally Open Break before Make

Description	Min	Тур	Мах	Units	
Frequency Range	DC		26.5	GHz	
Impedance		50		Ohms	
Termination Impedance		50		Ohms	
Operating Voltage	26	28	30	Volts	
Actuating Current @ 28 Vo	lts	90		mA	
VSWR		1.2:1	1.7:1		
Insertion Loss		0.15	0.7	dB	
Insertion Loss Repeatable	lity				
Isolation	70	80		dB	
Input Power (CW)			50	Watts	
Termination Input Power (C)	N)		5	Watts	
Switching Time			20	ms	

Features:

- Single Pole Four Throw
- DC to 26.5 GHz
 Frequency Range
- Isolation greater than
 80 dB typical
- 2M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Normally Open Actuator
- Internally Terminated
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- 15 Pin D-Sub Connector 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

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	0.4	0.7		dB
Isolation, Min	80	80	80	70		dB
Power In, Typ (CW)	90	75	60	50		Watts

Mechanical Specifications

Size Weight Package Type Operating Life

0.356 lbs [161.48 g] Connectorized 2,000,000 Cycles Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com

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Connectors

RF Connector Type	SMA Female
Control Connector	15 Pin D-Sub

Environmental Specifications

Temperature	
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Operating Range Storage Range

-25 to +70 deg C -55 to +100 deg C

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

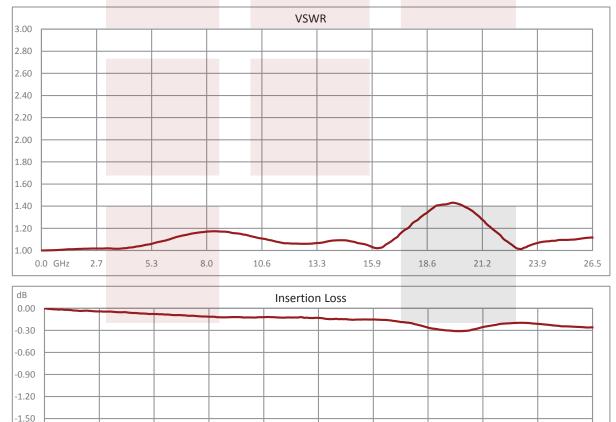
-1.80 -2.10 -2.40 -2.70 -3.00

0.0 GHz

2.7

Notes:

Typical Performance Data



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13.3

8.0

10.6

5.3

15.9

18.6

21.2

23.9

26.5







SP4T NO DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA 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: SP4T NO DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA FMSW6371

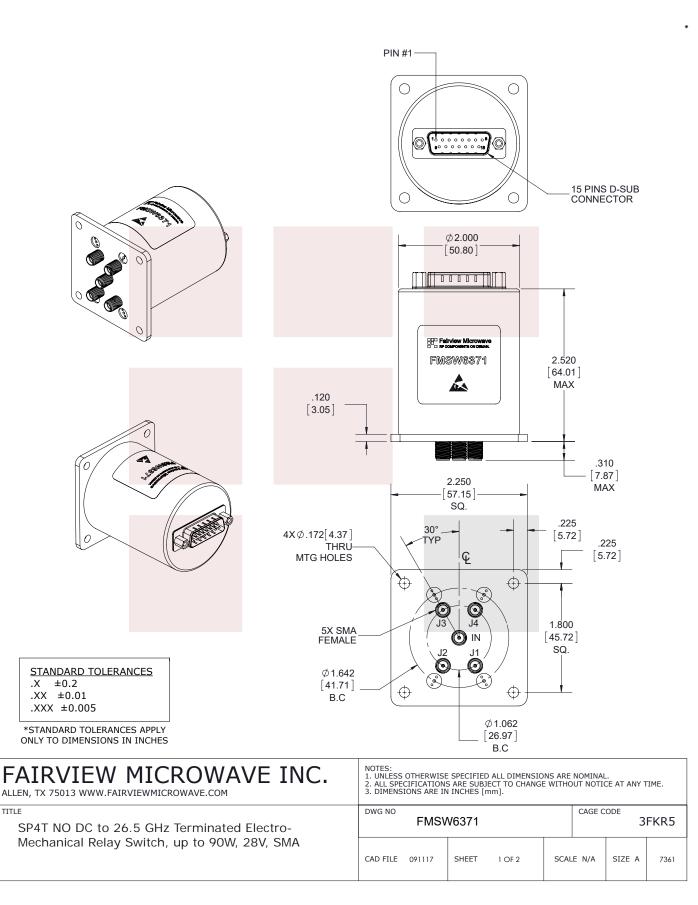
URL: https://www.fairviewmicrowave.com/sp4t-normally-open-26.5-ghz-terminated-electro-mechanical-relayswitch-50w-28v-sma-fmsw6371-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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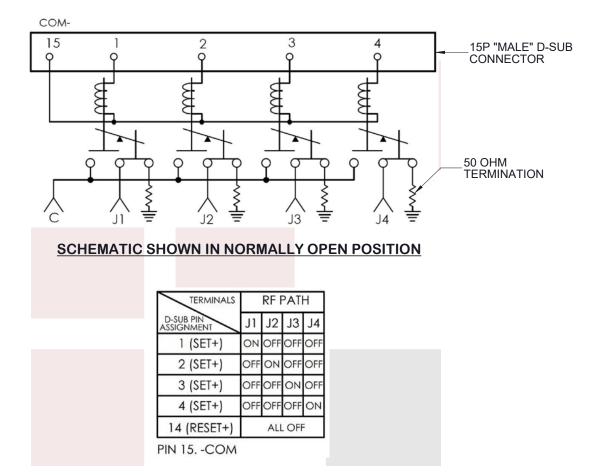


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SP4T NO DC to 26.5 GHz Terminated Electro- Mechanical Relay Switch, up to 90W, 28V, SMA	DWG NO FMSW6371				CAGE CODE 3FKR5		
	CAD FILE 091117	SHEET	2 OF 2	SCAL	E N/A	SIZE A	7361

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