



SP6T NO DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA

The FMSW6383 is a Single Pole Six Throw (SP6T) 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.



Switch Type Actuator Type Switching Sequence SP6T, Terminated Normally Open Break before Make

			Units
DC		26.5	GHz
	50		Ohms
	50		Ohms
26	28	30	Volts
lts	90		mA
	1.2:1	1.7:1	
	0.15	0.7	dB
lity			
70	80		dB
		50	Watts
N)		5	Watts
		20	ms
	26 Its	50 50 26 28 Its 90 1.2:1 0.15	50 50 26 28 30 Its 90 1.2:1 1.7:1 0.15 0.7 Ility 70 80 50 M) 5

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 0.384 lbs [174.18 g]
Package Type Connectorized

Operating Life 2,000,000 Cycles



Features:

- Single Pole Six 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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Connectors

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

Environmental Specifications

Temperature

-25 to +70 deg C Operating Range -55 to +100 deg C Storage Range

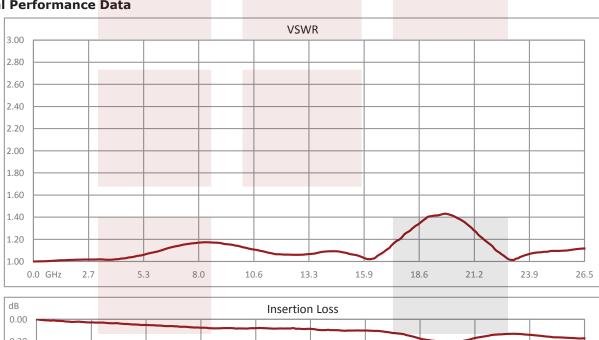
Shock MIL-STD-202 Method 213, Cond. D 500G Non Operating Vibration MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data





1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







SP6T 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.

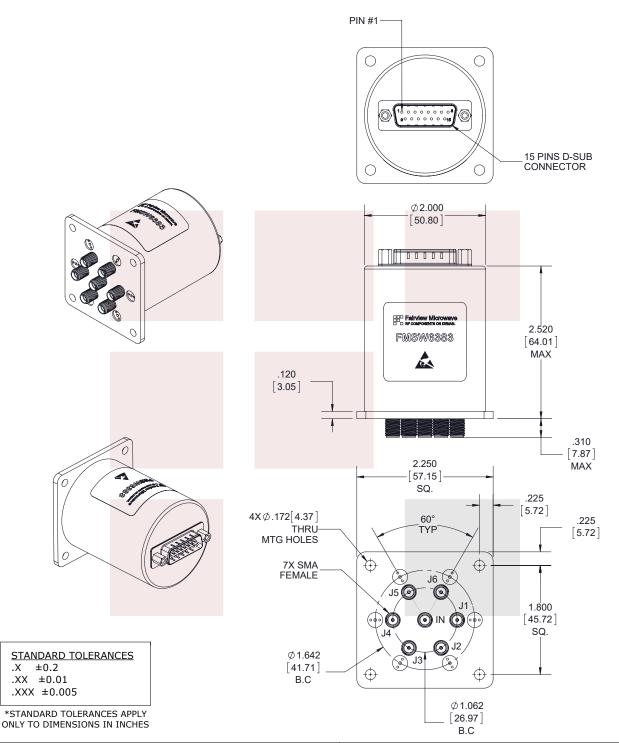
For additional information on this product, please click the following link: SP6T NO DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA FMSW6383

URL: https://www.fairviewmicrowave.com/sp6t-normally-open-26.5-ghz-terminated-electro-mechanical-relay-switch-50w-28v-sma-fmsw6383-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.



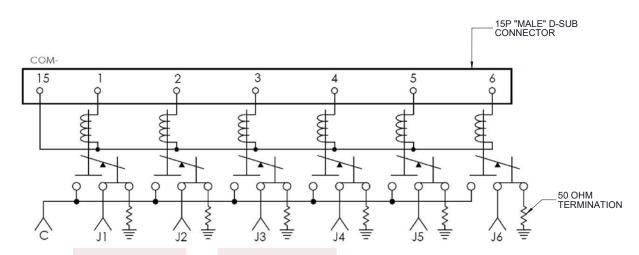




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SP6T NO DC to 26.5 GHz Terminated Electro- Mechanical Relay Switch, up to 90W, 28V, SMA	FMSW6383	CAGE CODE 3FKR5				
	CAD FILE 091117 SHEET 1 OF 2 SCA	ALE N/A SIZE A 7361				







SCHEMATIC SHOWN IN NORMALLY OPEN POSITION

TERMINALS	RF PATH					
D-SUB PIN ASSIGNMENT	J1	J2	J3	J4	J5	J6
1 (SET+)	ON	OFF	OFF	OFF	OFF	OFF
2 (SET+)	OFF	ON	OFF	OFF	OFF	OFF
3 (SET+)	OFF	OFF	ON	OFF	OFF	OFF
4 (SET+)	OFF	OFF	OFF	ON	OFF	OF
5 (SET+)	OFF	OFF	OFF	OFF	ON	OFF
6 (SET+)	OFF	OFF	OFF	OFF	OFF	ON
14 (RESET+)	ALL OFF					

PIN 15. -COM

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