



SP6T Normally Open Electro-Mechanical Relay Switch From DC to 8 GHz, 50 Watts, TNC

The FMSW6206 is an SP6T Electromechanical Relay Switch that operates over a wide frequency band from DC to 8 GHz and has a rating of 50 Watts input power (CW). Rated for 1M life cycles for high reliability operation, this design uses a Normally Open Actuator with a break before make configuration. The switch exhibits exceptional electrical performance specified from 0.2 dB max for insertion loss and 80 dB min for isolation, and guaranteed over -25°C to +65°C. The assembly requires an operating voltage of +12Vdc. External connectors include solder terminals and TNC female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence SP6T, Reflective Normally Open Break Before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Vo	lts	150		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	70			dB
Input Power (CW) (at 8 GHz)			50	Watts

Performance	by	Freq	uency	
Decemention		E4		

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8				GHz
VSWR, Max	1.2:1	1.6:1				
Insertion Loss, Max	0.2	0.6				dB
Isolation, Min	80	70				dB

Mechanical Specifications

Size

Length Width/Diameter Height

Body Material and Plating

Package Type

Operating Life Switching Time 2.5 in [63.5 mm] 2 in [50.8 mm]

2 in [50.8 mm]

0.72 lbs [326.59 g] Aluminum

Connectorized Module

1,000,000 Cycles 50 ms Max



Features:

- Single Pole Six Throw Relay Switch
- DC to 8 GHz Frequency Range
- 1M Cycle Operating Life Min
- Normally Open Actuator
- Insertion Loss 0.6 dB max
- Isolation 70 dB min
- 50 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications:

- Test & Measurement
- Communications System
- Instrumentation

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





Connectors

RF Connector Type

RF Connector Contact Material & Plating Beryllium Copper, Gold RF Connector Body Material & Plating

Control Connector

TNC Female

Passivated Stainless Steel

Solder Pin

Environmental Specifications Temperature

Operating Range **ESD Sensitivity**

-25 to +65 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in

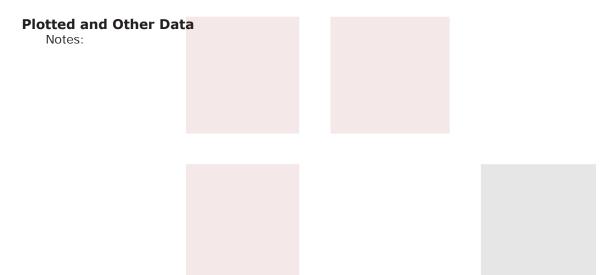
approved ESD Workstation.



Environmental Specification Notes: Designed to Meet MIL-DTL-3928

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

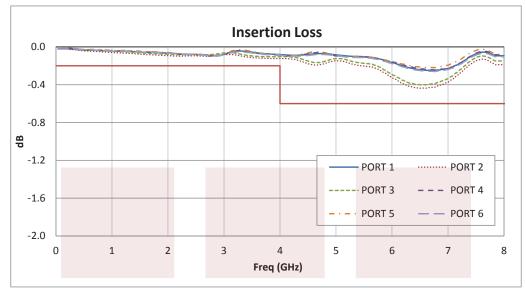
Not RoHS Compliant

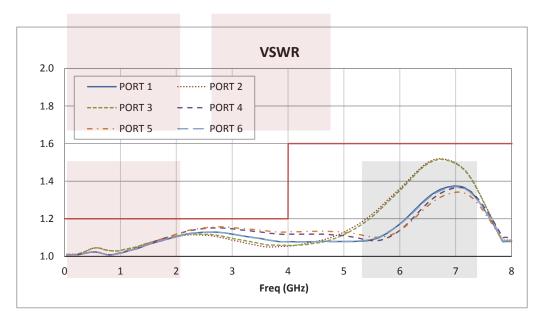






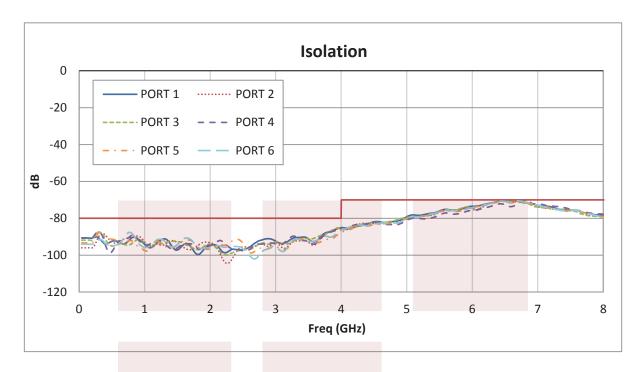
Typical Performance Data











SP6T Normally Open Electro-Mechanical Relay Switch From DC to 8 GHz, 50 Watts, TNC 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.

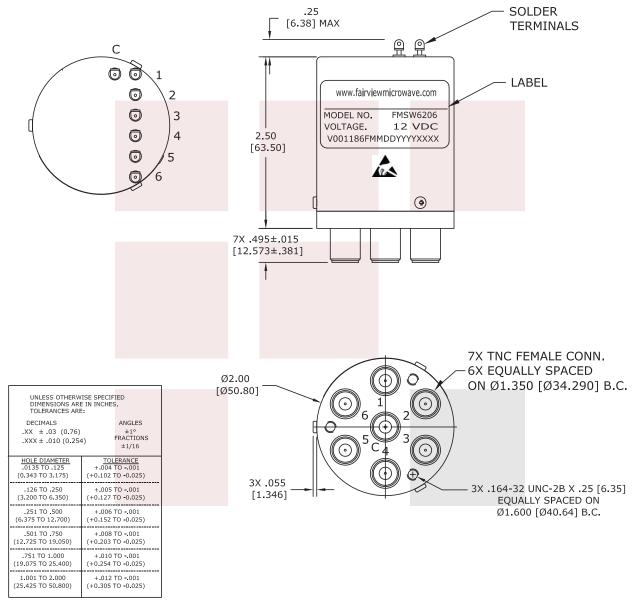
For additional information on this product, please click the following link: SP6T Normally Open Electro-Mechanical Relay Switch From DC to 8 GHz, 50 Watts, TNC FMSW6206

URL: http://www.fairviewmicrowave.com/sp6t-normally-open-electro-mechanical-relay-switch-fmsw6206-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.





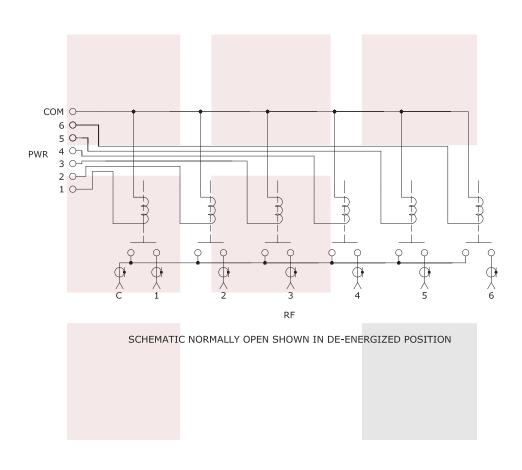


^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE $\,\#1$ ON TITLE BLOCK.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
SP6T Normally Open Electro-Mechanical Relay Switch From DC to 8 GHz, 50 Watts, TNC	DWG NO FMSW6206			CAGE CODE 3FKR5		
	CAD FILE 063015	SHEET	SCAL	E N/A	SIZE A	2233







FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
SP6T Normally Open Electro-Mechanical Relay Switch From DC to 8 GHz, 50 Watts, TNC	DWG NO FMSW6206			CAGE CODE 3FKR5		
	CAD FILE 063015	SHEET	SCALE	N/A	SIZE A	2233