



SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA

The FMSW6354 is a Single Pole Double Throw (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Failsafe actuator with internal 50 ohm terminations 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 85 dB typical. This switch requires a +12 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 9 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 SPDT, Terminated
Actuator Type Failsafe
Switching Sequence Break before Make

Min	Тур	Max	Units
DC		18	GHz
	50		Ohms
	50		Ohms
11	12	13	Volts
olts	200		mA
	1.2:1	1.4:1	
	0.15	0.35	dB
oility			
65	85		dB
		60	Watts
CW)		5	Watts
		20	ms
	11 olts	DC 50 50 11 12 oolts 200 1.2:1 0.15 oollity 65 85	DC 18 50 50 11 12 13 olts 200 1.2:1 1.4:1 0.15 0.35 ollity 65 85 60 cw) 5

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18			GHz
VSWR, Max	1.2:1	1.3:1	1.4:1			
Insertion Loss, Max	0.15	0.25	0.35			dB
Isolation, Min	85	75	65			dB
Power In, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Size

Weight 0.167 lbs [75.75 g]
Package Type Connectorized
Operating Life 2,000,000 Cycles



Features:

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 85 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- · 90 Watt average Power
- Failsafe Actuator
- Internally Terminated
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- 9 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 9 Pin D-Sub

Environmental Specifications

Temperature

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

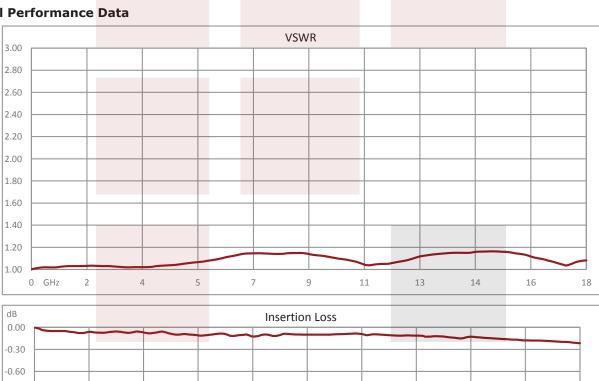
Shock MIL-STD-202 Method 213, Cond. D 500G Non Operating Vibration MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

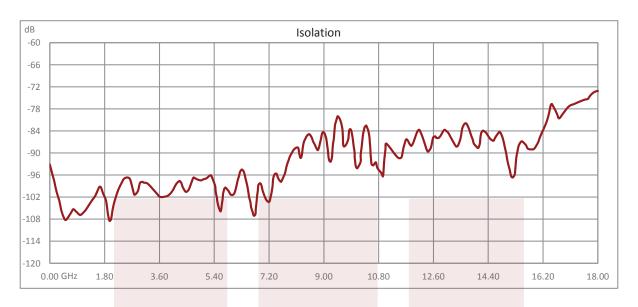




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SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001: 2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

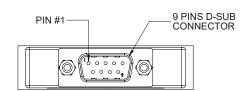
For additional information on this product, please click the following link: SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA FMSW6354

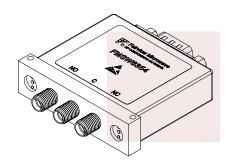
URL: https://www.fairviewmicrowave.com/spdt-failsafe-18-ghz-terminated-electro-mechanical-relay-switch-60w-12v-sma-fmsw6354-p.aspx

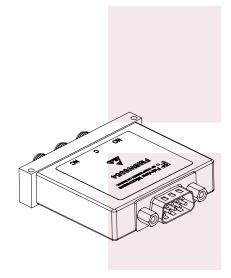
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to 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.







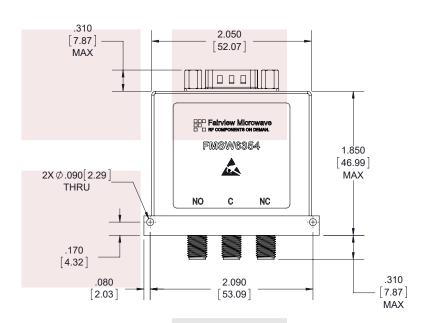


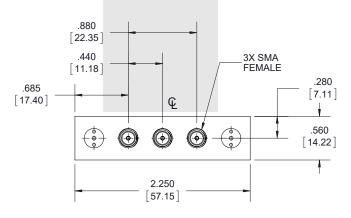


STANDARD TOLERANCES .X ±0.2 .XX ±0.01 .XXX ± 0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

TITLE





FAIRVIEW MICROWAVE INC.
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA

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].

DWG NO CAGE CODE FMSW6354 3FKR5

SCALE N/A

SIZE A

7361

1 OF 2

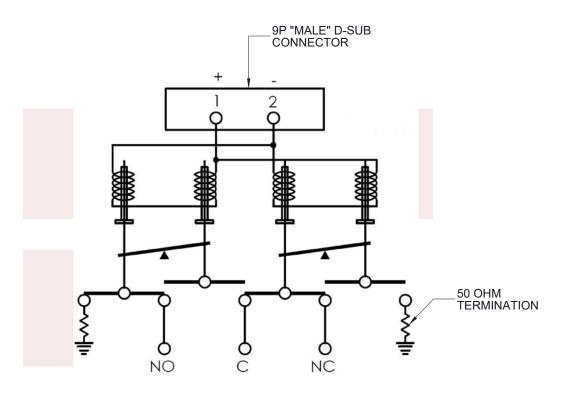
SHEET

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

CAD FILE 090617







SCHEMATIC SHOWN IN FAILSAFE POSITION

STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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SPDT Failsafe DC to 18 GHz Terminated Electro- Mechanical Relay Switch, up to 90W, 12V, SMA	DWG NO FMSW6354	CAGE CODE 3FKR5				
	CAD FILE 090617 SHEET	2 OF 2 SC.	ALE N/A	SIZE A	7361	