



SPDT Failsafe DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA

The FMSW6356 is a Single Pole Double Throw (SPDT) 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 Failsafe actuator with 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 80 dB typical. This switch requires a +12Vdc control 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.

Electrical Specifications

Switch Type SPDT, Terminated
Actuator Type Failsafe
Switching Sequence Break before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Termination Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Current @ 12 Vo	lts	200		mA
VSWR		1.2:1	1.7:1	
Insertion Loss		0.15	0.6	dB
Insertion Loss Repeatabi	lity			
Isolation	50	80		dB
Input Power (CW)			50	Watts
Termination Input Power (CW)			5	Watts
Switching Time			20	ms

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	0.35	0.6		dB
Isolation, Min	80	70	60	50		dB
Power In, Typ (CW)	90	75	60	50		Watts

Mechanical Specifications

Size

Weight 0.168 lbs [76.2 g]
Package Type Connectorized

Operating Life 2,000,000 Cycles



Features:

- Single Pole Double Throw
- DC to 26.5 GHz
 Frequency Range
- Isolation greater than 80 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

Tel: 1-800-715-4396 / (972) 649-6678

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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 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA 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 Allen, Texas. Fairview Microwave is RF on-demand.

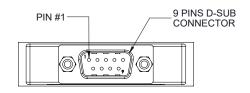
For additional information on this product, please click the following link: SPDT Failsafe DC to 26.5 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 12V, SMA FMSW6356

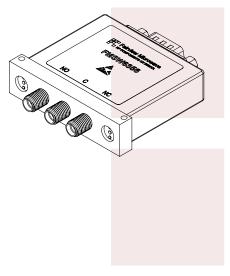
URL: https://www.fairviewmicrowave.com/spdt-failsafe-26.5-ghz-terminated-electro-mechanical-relay-switch-50w-12v-sma-fmsw6356-p.aspx

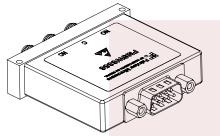
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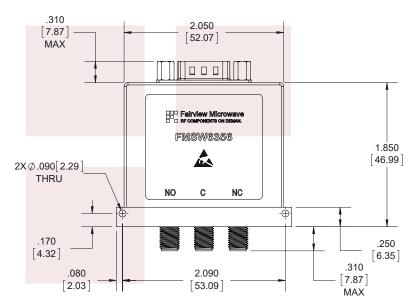


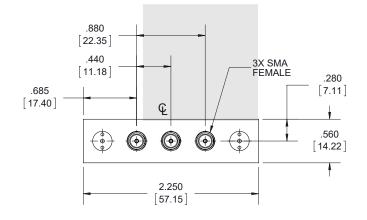




STANDARD TOLERANCES .X ±0.2 .XX ±0.01 .XXX ± 0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES





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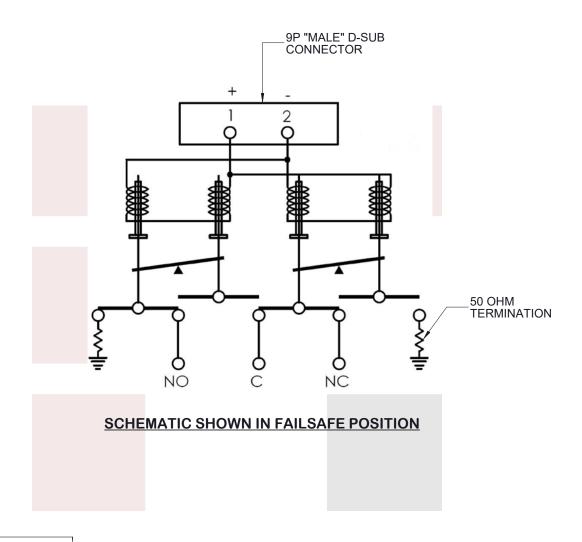
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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO CAGE CODE FMSW6356 3FKR5 CAD FILE 090617 SHEET 1 OF 2 SCALE N/A SIZE A 7361







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Mechanical Relay Switch, up to 90W, 12V, SMA	CAD FILE 090617 SHEET 2 OF 2	SCA	LE N/A	SIZE A	7361	