



SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA

The FMSW6355 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 has 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 +28Vdc 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

50	18	GHz				
50		GHZ				
		Ohms				
50		Ohms				
28	30	Volts				
90		mA				
.2:1	1.4:1					
).15	0.35	dB				
Insertion Loss Repeatability						
85		dB				
	60	Watts				
	5	Watts				
		ms				
)	.15	0.35 85 60				

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 0.165 lbs [74.84 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
- +28 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

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Connectors

RF Connector Type **SMA Female** Control Connector 9 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

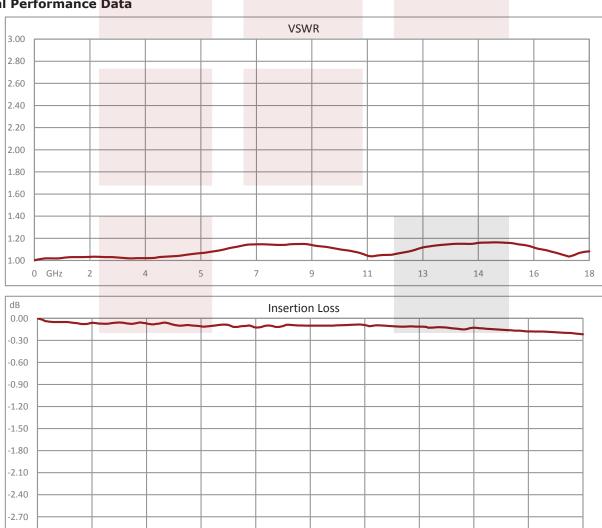
-3.00

0.00GHz

1.80

Notes:

Typical Performance Data



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

9.00

5.40

7.20

3.60

10.80

12.60

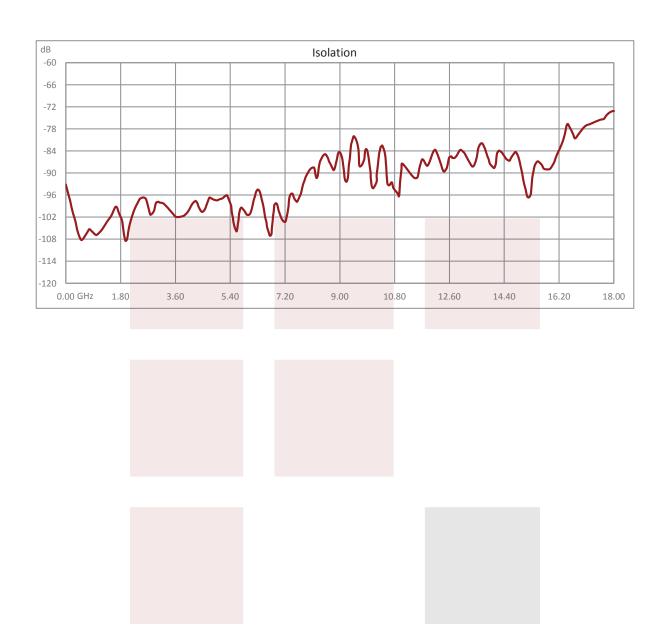
14.40

16.20

18.00

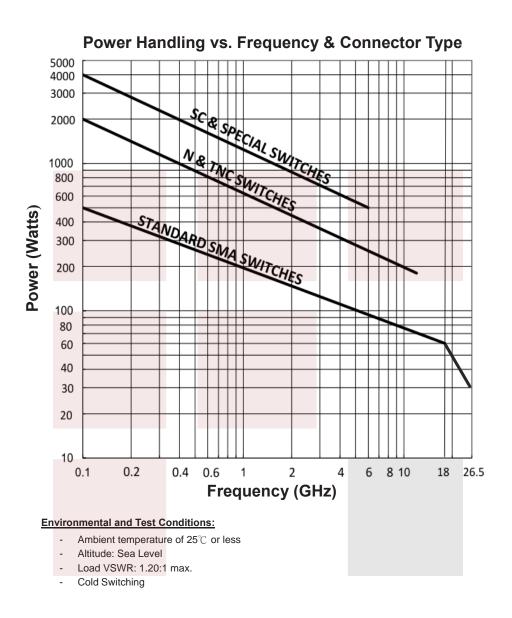












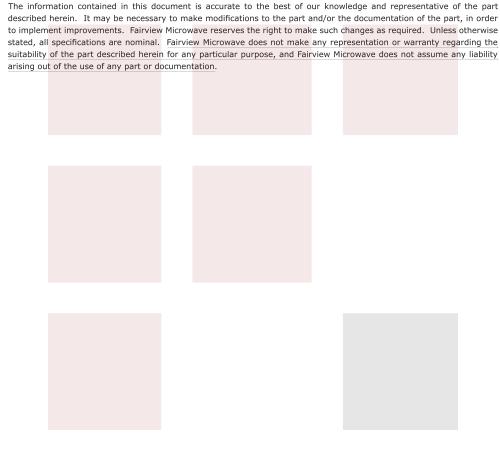




SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

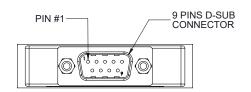
For additional information on this product, please click the following link: SPDT Failsafe DC to 18 GHz Terminated Electro-Mechanical Relay Switch, up to 90W, 28V, SMA FMSW6355

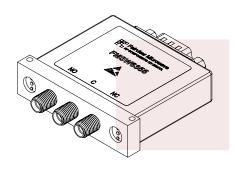
URL: https://www.fairviewmicrowave.com/spdt-failsafe-18-ghz-terminated-electro-mechanical-relay-switch-60w-28v-sma-fmsw6355-p.aspx

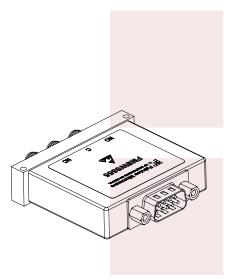






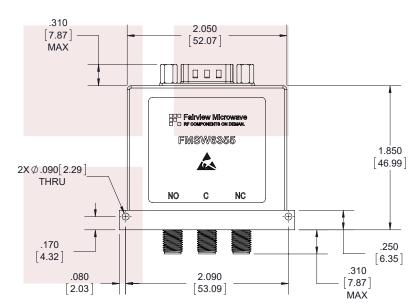


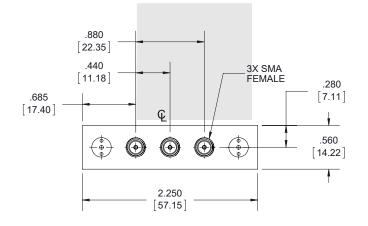




STANDARD TOLERANCES .X ±0.2 .XX ±0.01 .XXX ± 0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES





FAIRVIEW	MICROWAVE	INC.

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE

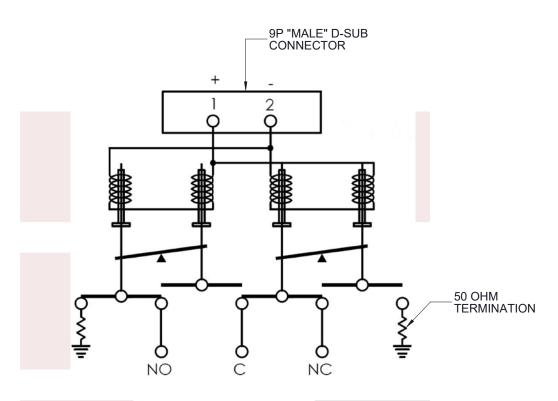
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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO CAGE CODE FMSW6355 3FKR5 CAD FILE 090617 SHEET SCALE N/A SIZE A 1 OF 2 7361







SCHEMATIC SHOWN IN FAILSAFE POSITION

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].					
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	CAD FILE 090617	SHEET 2 OF 2	SCAL	E N/A	SIZE A	7361