WINSOURCE ELECTRONICS

THE DATASHEET OF

SR18-SMA2

Fairview Microwave
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SR18-SMA2
DATA SHEET

SPDT Failsafe Electro-Mechanical Relay Switch From DC to 18 GHz, 35 Watts, SMA

The SR18-SMA2 is a SPDT Electromechanical Relay Switch that operates over a wide frequency band from DC to 18 GHz with up to 85 Watts of input power (CW) handling capability. Rated for 1M Life Cycles, this design uses a Failsafe Actuator with a break before make configuration. The switch exhibits exceptional electrical performance specified from 0.2 dB max for insertion loss and from 80 dB min for isolation, and is guaranteed over -40 deg C to +85 deg C. The assembly requires an operating DC voltage of +9 Vdc and is certified as RoHS and REACH compliant. External connectors include solder terminals and SMA female connectors.



Features:

- SPDT Switch
- DC to 18 GHz Operating Frequency Range
- 1 M Cycles min
- Failsafe Switch
- Switching Sequence Break Before Make

Applications:

- Test & Measurement
- Instrumentation

Electrical Specifications

Switch Type	SPDT, Reflective
Actuator Type	Failsafe
Switching Sequence	Break before Make
Pickup Voltage	9 Volts
Dropout Voltage	1.5 Volts

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Operating Voltage	10	12	14	Volts
Actuating Current @ 12 Volts			190	mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	60			dB
Input Power (CW)			35	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12.4	12.4 to 18		GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1		
Insertion Loss, Max	0.2	0.3	0.4	0.5		dB
Isolation, Min	80	70	60	60		dB
Power In, Typ (CW)	85	55	45	35		Watts

Mechanical Specifications

Size

Length	1.34 in [34.04 mm]
Width/Diameter	1.88 in [47.75 mm]
Height	0.5 in [12.7 mm]
Weight	0.0625 lbs [28.35 g]
Body Material and Plating	Aluminum, Black Anodized
Package Type	Connectorized Module
Operating Life	1,000,000 Cycles
Switching Time	15 ms Max

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

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Connectors

RF Connector Type	SMA Female
RF Connector Contact Material & Plating	Beryllium Copper, Gold
RF Connector Body Material and Plating	Passivated Stainless Steel
Control Connector	Solder Terminals

Mechanical Specification Notes:
RF Connector mating requirements per MIL-C-39012

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-55 to +100 deg C

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

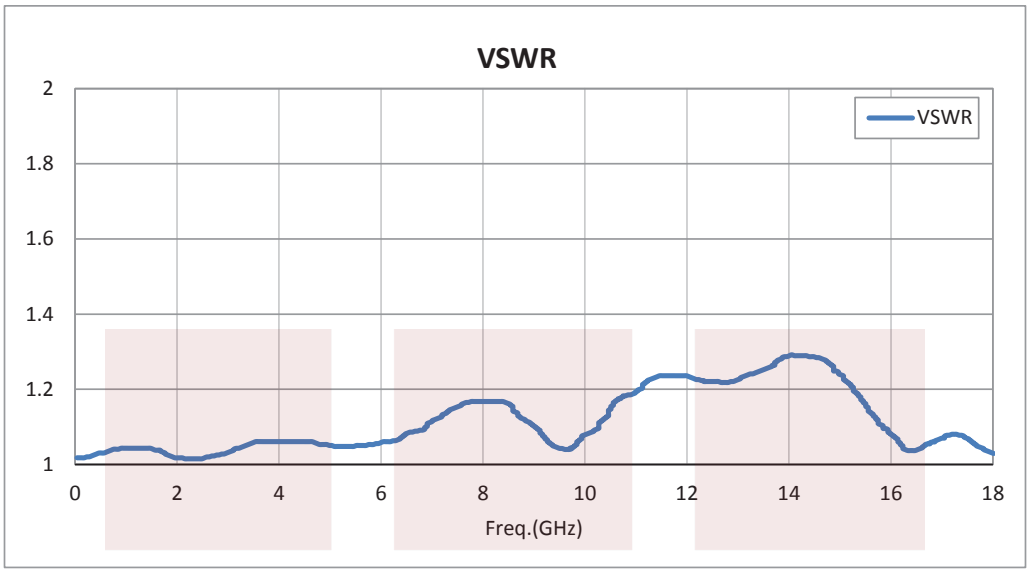
RoHS Compliant	
REACH Compliant	12/17/2014

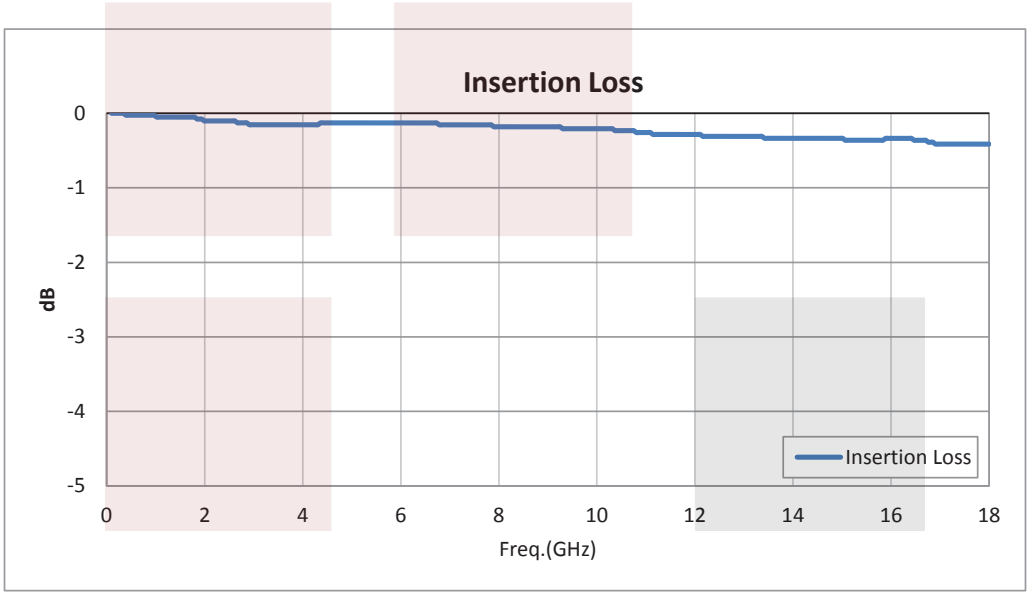
Plotted and Other Data

Notes:

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Typical Performance Data





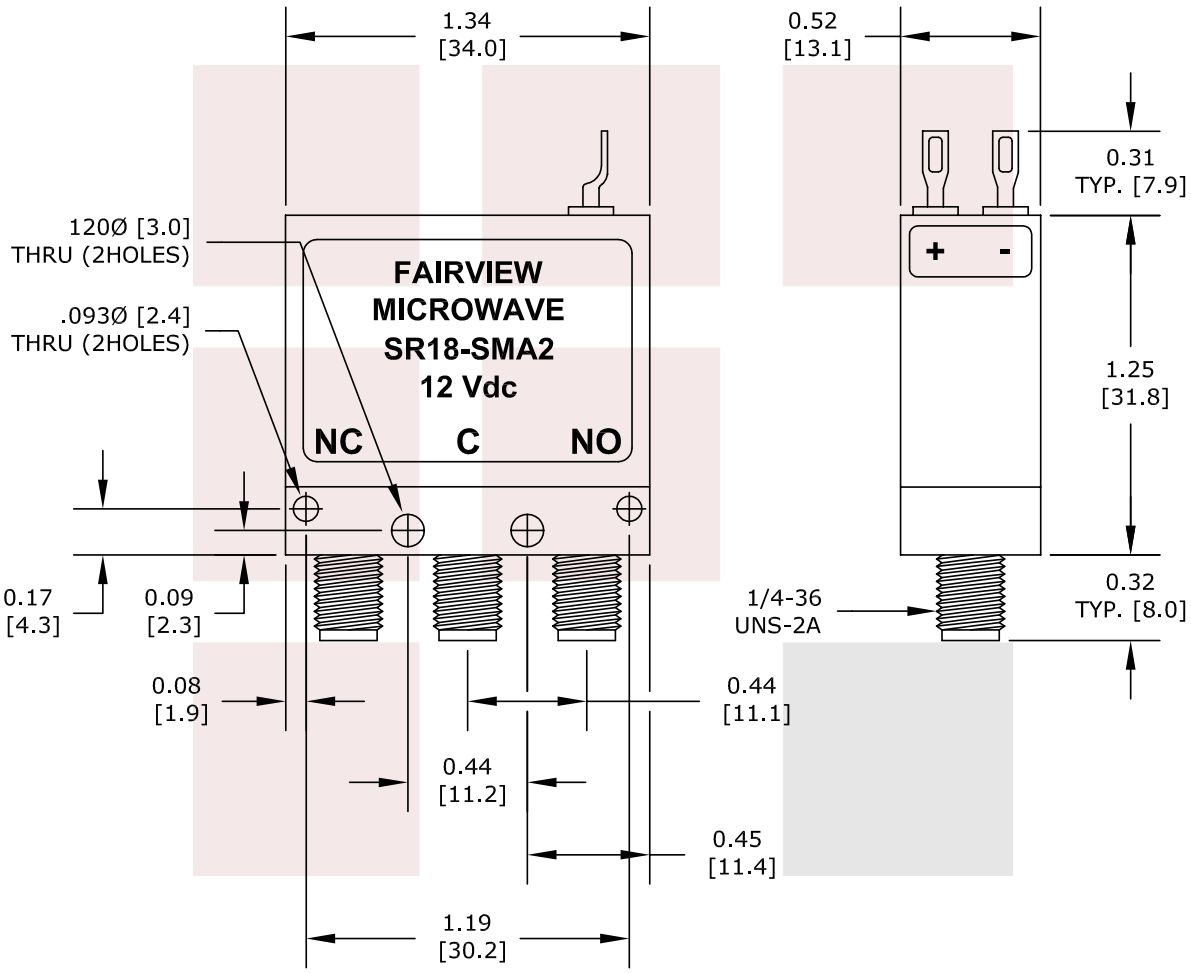
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For additional information on this product, please click the following link: SPDT Failsafe Electro-Mechanical Relay Switch From DC to 18 GHz, 35 Watts, SMA SR18-SMA2

URL: http://www.fairviewmicrowave.com/spdt-failsafe-electro-mechanical-relay-switch-sr18-sma2-p.aspx

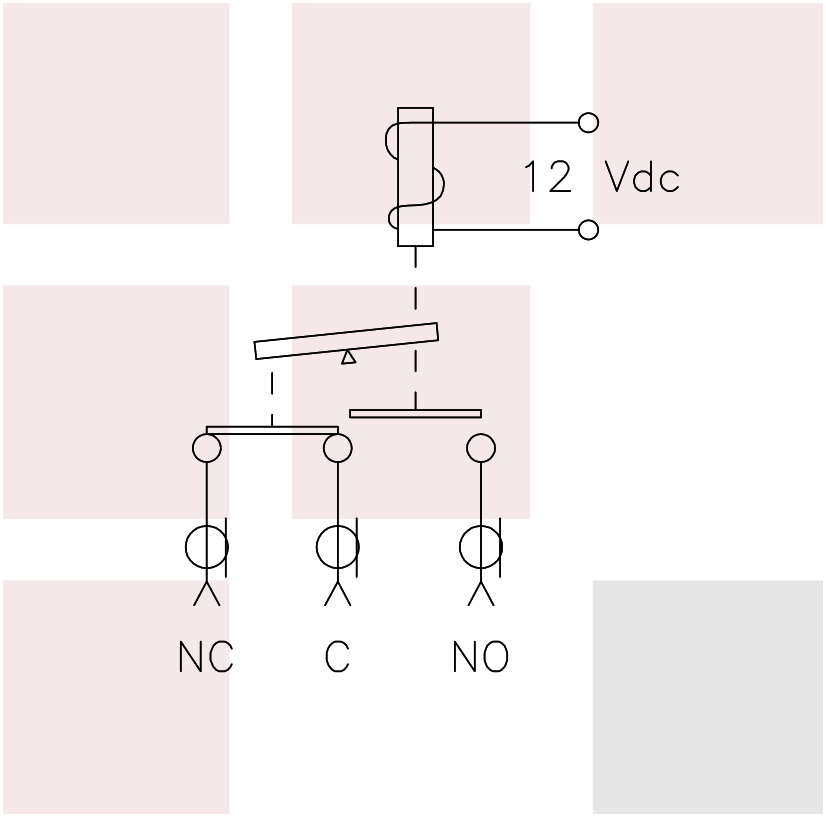
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TITLE SPDT Failsafe Electro-Mechanical Relay Switch From DC to 18 GHz, 35 Watts, SMA		DWG NO SR18-SMA2		CAGE CODE 3FKR5	
CAD FILE 090815	SHEET	SCALE N/A	SIZE A	150	

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

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