

Transfer Failsafe DC to 18 GHz Electro-Mechanical Relay Switch, up to 240W, 12V, SMA

The SEMS-4064-DPDT-SMA is a Transfer Electromechanical Relay Switch that operates over a wide frequency band from DC to 18GHz with up to 240 Watts of input power (CW) handling capability. Rated for 2.5M life cycles for high reliability operation, 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 guaranteed over -40°C to +85°C. The assembly requires an operating voltage of +12Vdc and is certified as RoHS and REACH compliant. External connectors include solder terminals and SMA female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Transfer Failsafe

Break before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Operating Voltage	10.2	12	13	Volts
Actuating Current @ 12 V	olts	340		mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	60			dB
Input Power (CW)			100	Watts
Switching Time			15	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 3	3 - 8	8 - 12.4	12.4 - 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	65	60		dB
Power In, Max (CW)	240	150	120	100		Watts

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

 Length
 1.53 in [38.86 mm]

 Width/Diameter
 1.27 in [32.26 mm]

 Height
 1.33 in [33.78 mm]

 Weight
 0.181 lbs [82.1 g]

 Package Type
 Connectorized

 Operating Life
 2,500,000 Cycles



Features:

- Transfer Relay Switch
- DC to 18 GHz Frequency Range
- 2.5M Cycle Operating Life Min
- 100 Watt Avg Power Max
- -40 to +85 Deg C
 Operating Temperature
- Insertion Loss 0.5 dB Max
- VSWR 1.5:1 Max

Applications:

- General Purpose High Performance Relay Switch
- Military Communications
- Communications Systems
- Test & Measurement

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Connectors

RF Connector Type SMA Female
RF Connector Specification MIL C 39012
Control Connector Solder Pin

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Environmental Specifications

Temperature

Operating Range -40 to +85 deg CStorage Range -55 to +85 deg C

Construction Splashproof

Shock MIL-STD-202, Method 213B, Cond.G Vibration MIL-STD-202, Method 204D, Cond.C

Environmental Specification Notes:

Environmental specifications are guaranteed but not tested.

Compliance Certifications (see product page for current document)

Plotted and Other Data

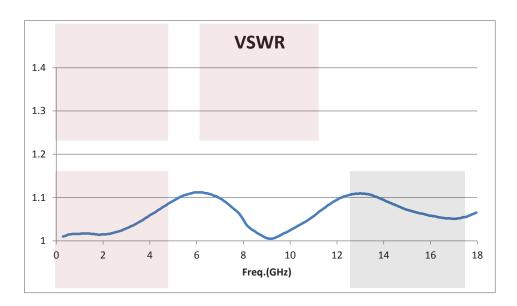
Notes:

• Values shown are typical at 25°C.

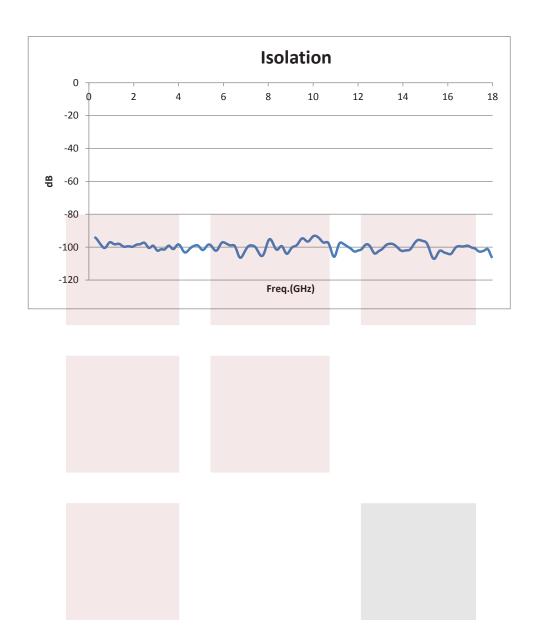


Typical Performance Data









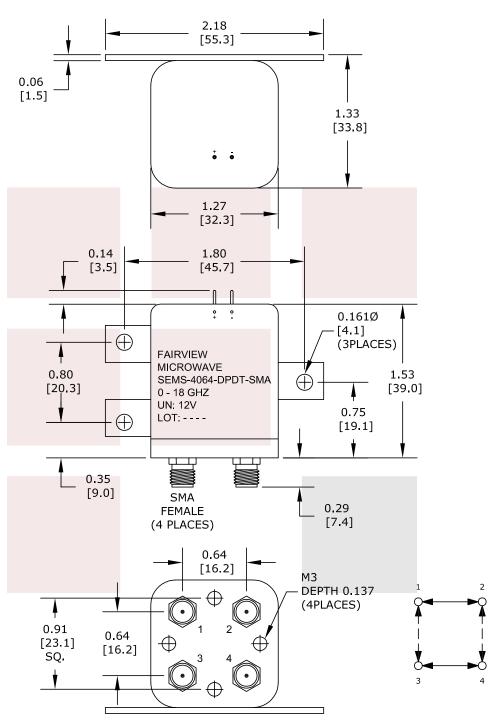
Transfer Failsafe DC to 18 GHz Electro-Mechanical Relay Switch, up to 240W, 12V, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Transfer Failsafe DC to 18 GHz Electro-Mechanical Relay Switch, up to 240W, 12V, SMA SEMS-4064-DPDT-SMA

URL: https://www.fairviewmicrowave.com/transfer-failsafe-electro-mechanical-relay-switch-sems-4064-dpdt-sma-p.aspx

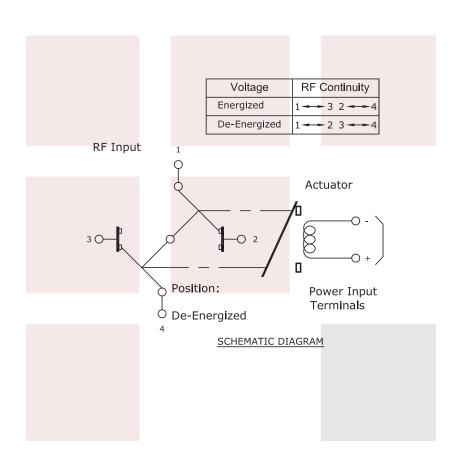
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Transfer Failsafe DC to 18 GHz Electro-Mechanical Relay Switch, up to 240W, 12V, SMA	SEMS-4064-DPDT-SMA			CAGE CODE 3FKR5		
	CAD FILE 082815	SHEET	SCALE N/A	SIZE A	150	





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