

FMSW6294 DATA SHEET

SPDT Failsafe DC to 22 GHz Terminated Electro-Mechanical Relay Switch, 20W, 28V, SMA

FMSW6294 is a Single Pole Double Throw (SPDT) Terminated Electromechanical Relay Switch that operates from DC to 22 GHz and has a rating of 20 Watts input power (CW) in a Break Before Make condition. The output port is terminated in 50 ohms when switched in the isolation (off) state. The design features a Failsafe Actuator with Internal Terminations and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 80 dB min at 3 GHz, with +28 Vdc operating voltage. Performance is guaranteed over -35°C to +85°C and the switch assembly is RoHS compliant. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

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

Description	Min	Тур	Max	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Vo	lts		190	mA
Input Power (CW)			20	Watts
Termination Input Power (C)	N)		5	Watts
Switching Time			35	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 3	3 - 8	8 - 12.4	12.4 - 18	18 - 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.7:1	
Insertion Loss, Max	0.2	0.3	0.4	0.5	0.6	dB
Isolation, Min	80	70	60	60	55	dB

Mechanical Specifications

Size Weight Body Material and Plating Package Type

Operating Life

Connectors

RF Connector Type RF Connector Contact Material & Plating RF Connector Body Material & Plating Control Connector 0.1625 lbs [73.71 g] Aluminum, Nickel Connectorized

1,000,000 Cycles

SMA Female Beryllium Copper, Gold Passivated Stainless Steel Solder Pin



Features:

- Single Pole Double Throw Terminated Relay Switch
- DC to 22 GHz Frequency Range
- 1M Cycle Min Operating Life
- Failsafe Actuator
- Insertion Loss 0.6 dB max
- Isolation 55 dB min
- 20 Watts Avg Power Max
- Switching Sequence
 Break Before Make

Applications:

- Test & Measurement
- Communications System
- Instrumentation
- Military Communications

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Environmental Specifications

Temperature Operating Range

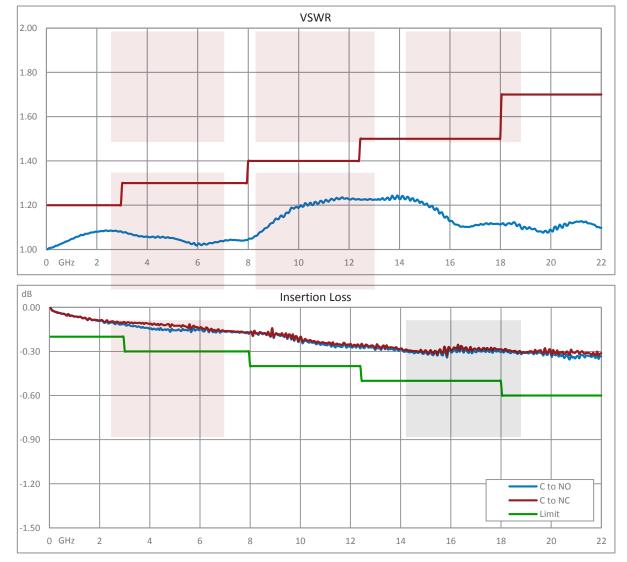
-35 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

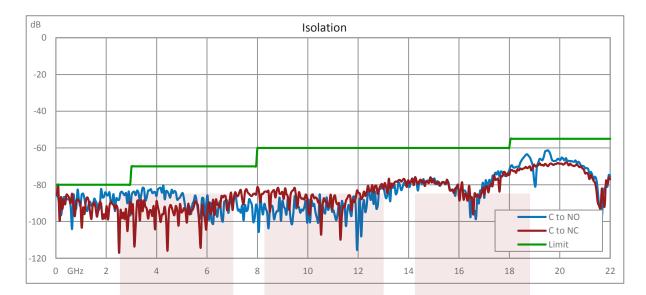
Notes:

Typical Performance Data









SPDT Failsafe DC to 22 GHz Terminated Electro-Mechanical Relay Switch, 20W, 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.

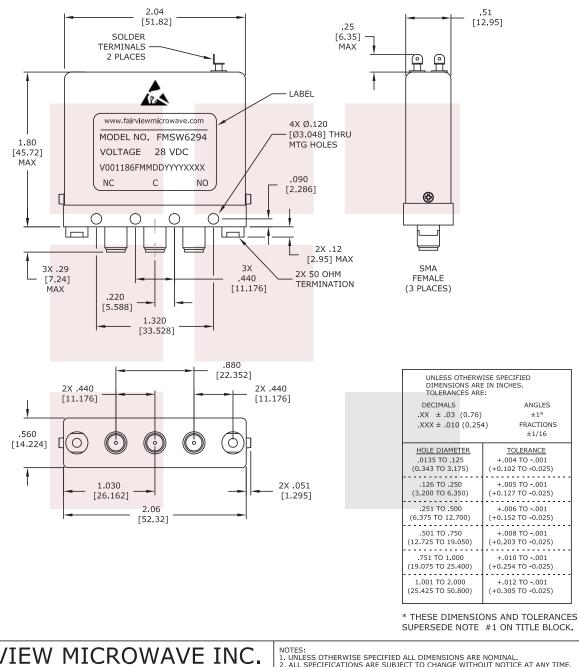
For additional information on this product, please click the following link: SPDT Failsafe DC to 22 GHz Terminated Electro-Mechanical Relay Switch, 20W, 28V, SMA FMSW6294

URL: https://www.fairviewmicrowave.com/spdt-failsafe-electromechanical-relay-switch-terminated-fmsw6294-p.aspx

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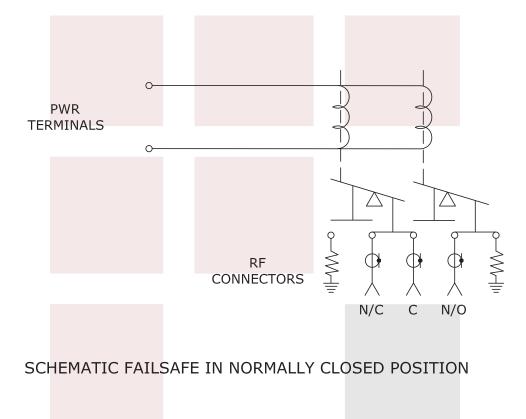
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	CAD FILE 071116	SHEET	SCALE	N/A	SIZE A	2233







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