



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

FMSW6296 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 TTL Logic control Failsafe Actuator with Indicators and Internal Terminations. It 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 Actuator Type Switching Sequence Actuator Options TTL Control SPDT, Terminated Failsafe Break Before Make TTL Logic, Indicators on: 3.5 to 5.5 Volts off: 0 to 0.8 Volts

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	W)		5	Watts
Switching Time			20	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

0.182 lbs [82.55 g] Aluminum, Nickel Connectorized

1,000,000 Cycles

Connectors

RF Connector Type RF Connector Contact Material & Plating RF Connector Body Material & Plating Control Connector 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
- TTL Logic
- Indicators
- 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

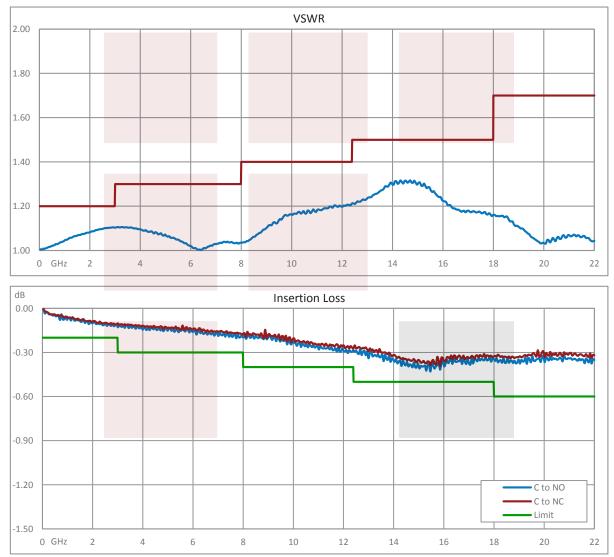
Operating Range -35 to +85 deg C

Compliance Certifications (see product page for current document)

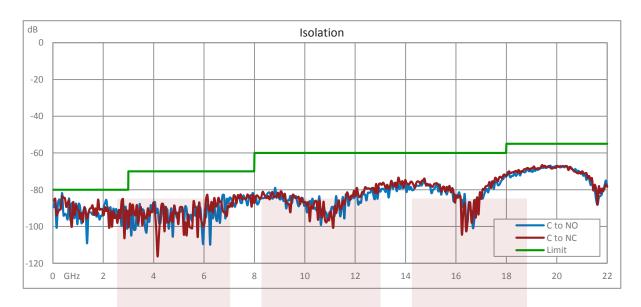
Plotted and Other Data

Notes:

Typical Performance Data







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

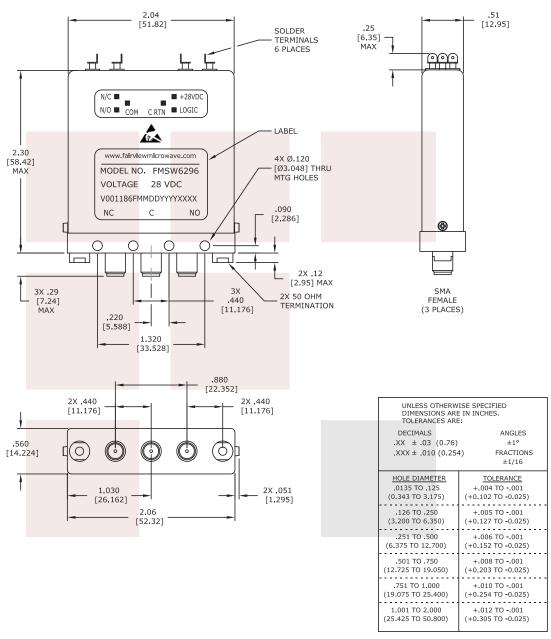
For additional information on this product, please click the following link: SPDT Failsafe DC to 22 GHz Terminated Electro-Mechanical Relay Switch, TTL, Indicators, 20W, 28V, SMA FMSW6296

URL: https://www.fairviewmicrowave.com/spdt-failsafe-electromechanical-relay-switch-ttl-indicators-terminated-fm-sw6296-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





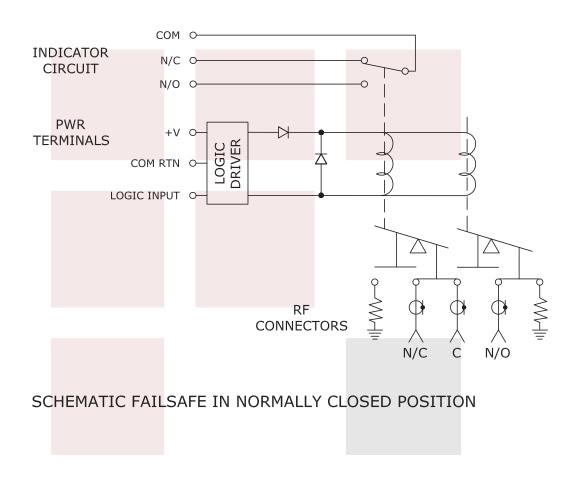


^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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	CAD FILE 071516	SHEET	SCALE N	N/A	SIZE A	2233







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