

SPDT Failsafe Electro-Mechanical Relay Switch
From DC to 26.5 GHz, 20 Watts, SMA

FMSW6328 is a Single Pole Double Throw (SPDT) RF Coaxial Relay Switch that operates from DC to 26.5 GHz and can handle up to 20 Watts of CW input power at 26.5 GHz in a Break Before Make condition. The design features a Failsafe Actuator and is rated for 1M Life Cycles. Insertion Loss is specified from 0.5 dB max and Isolation from 50 dB min, with +24 Vdc operating voltage. Performance is guaranteed over -55°C to +85°C. The package interface uses solder terminals and SMA female connectors.



Electrical Specifications

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

Description	Min	Typ	Max	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Operating Voltage		24		Volts
Actuating Current @ 24 Volts		150		mA
Input Power (CW) (26.5 GHz)			20	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8	8 - 12	12 - 18	18 - 26.5	GHz
VSWR, Max	1.25:1	1.25:1	1.3:1	1.35:1	1.5:1	
Insertion Loss, Max	0.2	0.25	0.3	0.4	0.5	dB
Isolation, Min	80	75	70	60	50	dB

Mechanical Specifications

Size
 Length 1.25 in [31.75 mm]
 Width/Diameter 1.25 in [31.75 mm]
 Height 0.5 in [12.7 mm]
 Weight 0.14 lbs [63.5 g]
 Body Material and Plating Aluminum, Nickel
 Operating Life 1,000,000 Cycles
 Switching Time 15 ms Max

Connectors

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

Features:

- Single Pole Double Throw (SPDT) Relay Switch
- DC to 26.5 GHz Frequency Range
- 1M Cycle Operating Life Min
- Failsafe Actuator
- Insertion Loss 0.5 dB max
- Isolation 50 dB min
- 20 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

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Environmental Specifications

Temperature

Operating Range
ESD Sensitivity

-55 to +85 deg C

ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



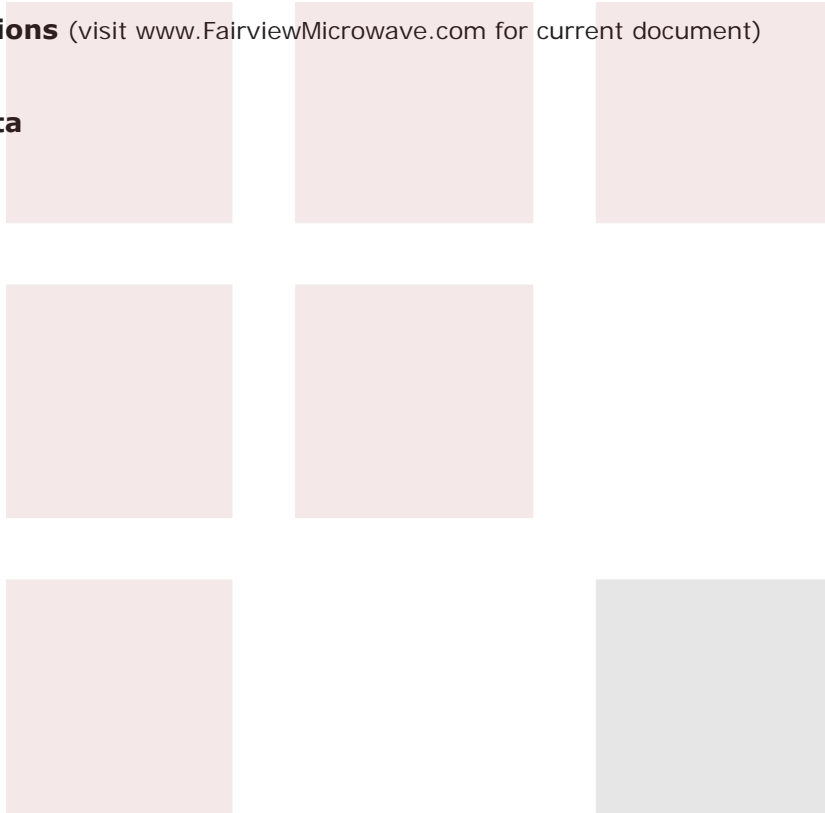
Environmental Specification Notes:
Design to meet MIL-DTL-3928

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

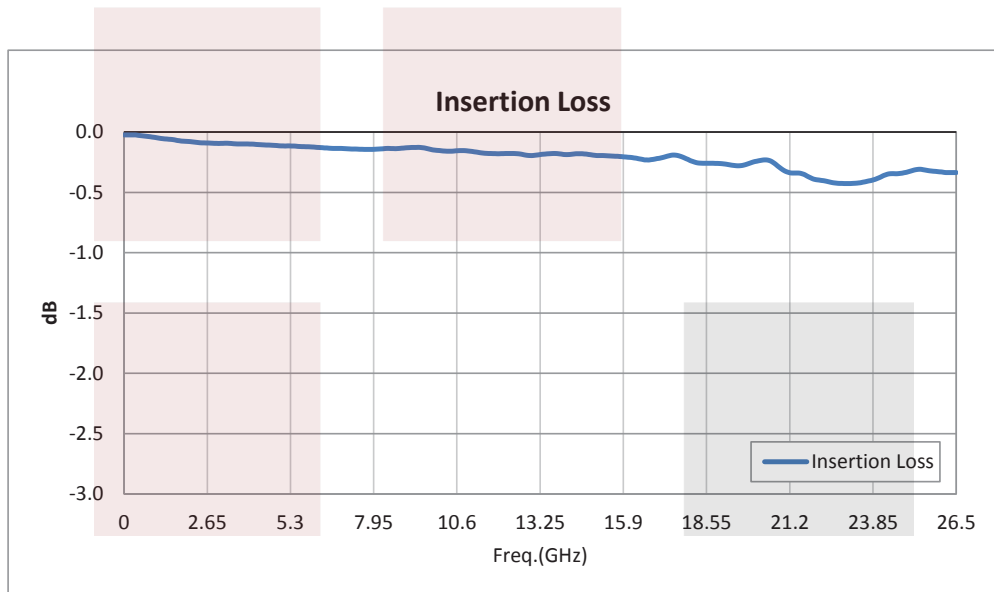
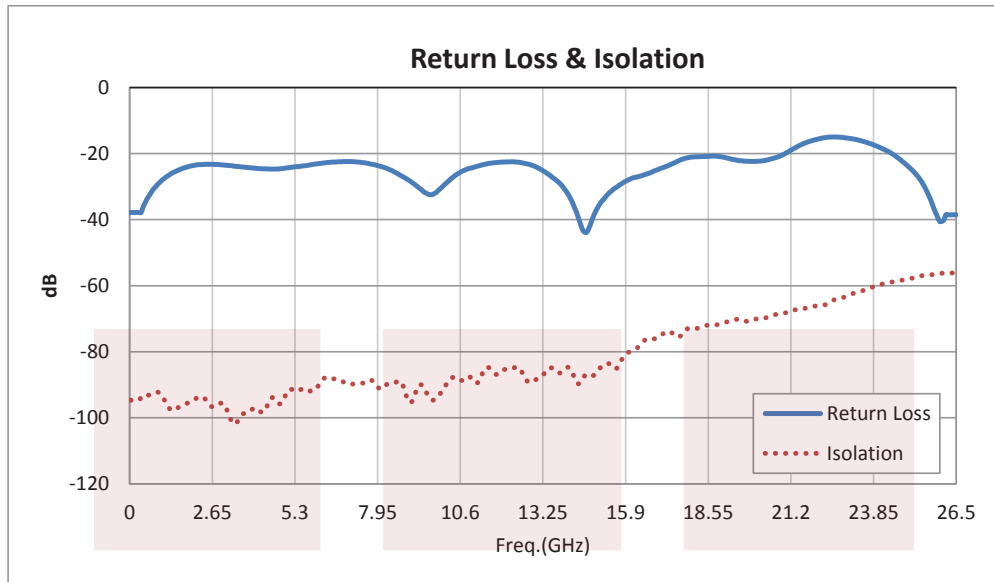
RoHS Compliant

Plotted and Other Data

Notes:



Typical Performance Data

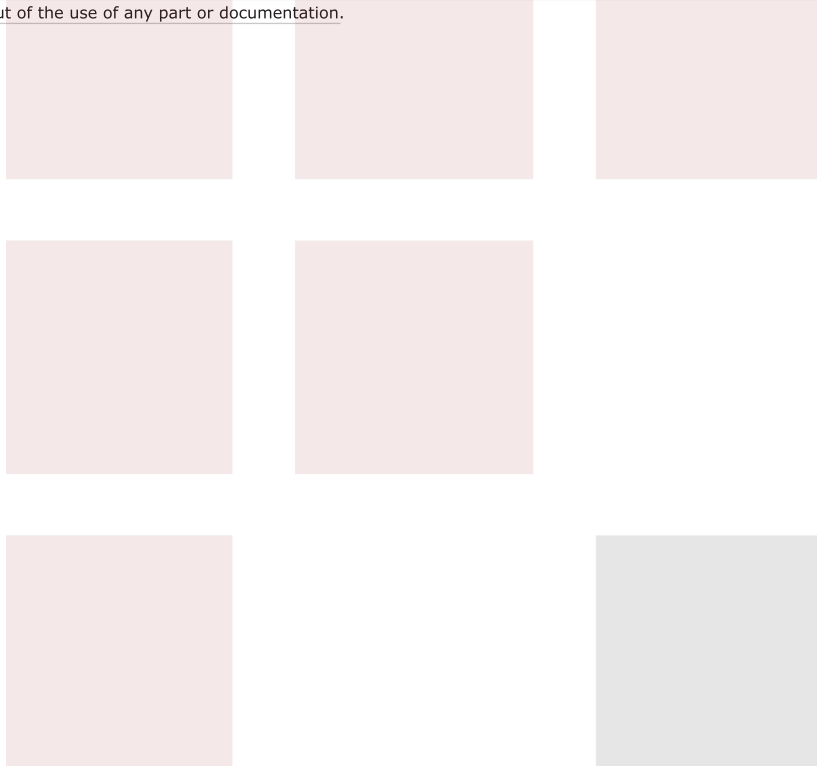


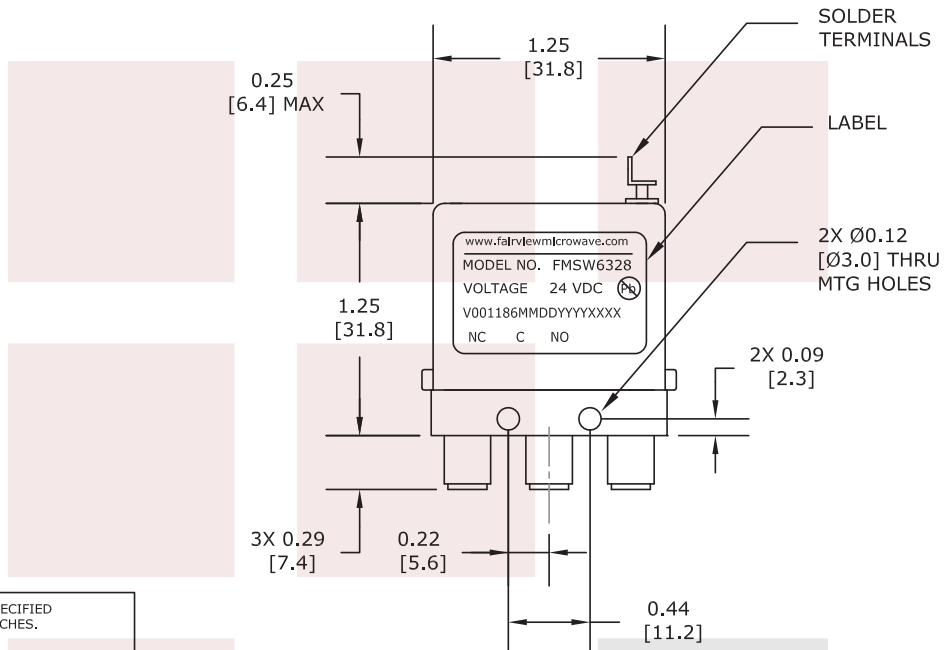
SPDT Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SPDT Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA FMSW6328](#)

URL: <http://www.fairviewmicrowave.com/spdt-failsafe-electro-mechanical-relay-switch-fmsw6328-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.

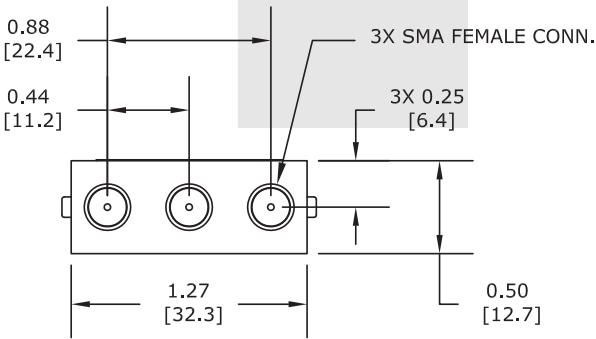




UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

DECIMALS	ANGLES
.XX ± .03 (0.76)	±1°
.XXX ± .010 (0.254)	FRACTIONS ±1/16

HOLE DIAMETER	TOLERANCE
.0135 TO .125 (0.343 TO 3.175)	+ .004 TO -.001 (+0.102 TO -0.025)
.126 TO .250 (3.200 TO 6.350)	+ .005 TO -.001 (+0.127 TO -0.025)
.251 TO .500 (6.375 TO 12.700)	+ .006 TO -.001 (+0.152 TO -0.025)
.501 TO .750 (12.725 TO 19.050)	+ .008 TO -.001 (+0.203 TO -0.025)
.751 TO 1.000 (19.075 TO 25.400)	+ .010 TO -.001 (+0.254 TO -0.025)
1.001 TO 2.000 (25.425 TO 50.800)	+ .012 TO -.001 (+0.305 TO -0.025)



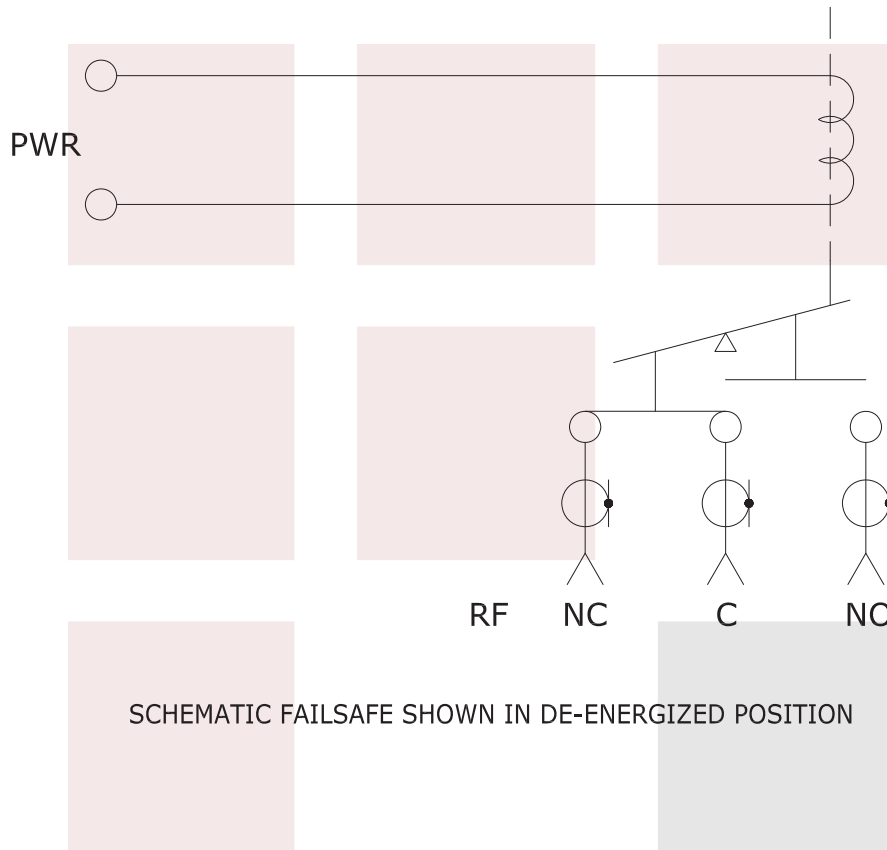
* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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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].

TITLE
SPDT Failsafe Electro-Mechanical Relay Switch From DC to 26.5 GHz, 20 Watts, SMA

DWG NO	FMSW6328	CAGE CODE	3FKR5		
CAD FILE	120815	SHEET	SCALE	N/A	SIZE
					A
					2233



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