



# SPDT Failsafe DC to 50 GHz Electro-Mechanical Relay Switch, up to 80W, 28V, 2.4mm

The FMSW6329 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 50 GHz and can handle up to 80 Watts of CW input power in a Break Before Make condition. The design features a Failsafe Actuator and is rated for 2M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -25°C to +70°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and 2.4mm Female connectors.

## **Electrical Specifications** (TA = +25°C, DC Voltage = 28 Vdc)

Switch Type SPDT Actuator Type Failsafe

Switching Sequence Break Before Make

Min	Тур	Max	Units
DC		50	GHz
	50		Ohms
24	28	30	Volts
lts	104		mA
		80	Watts
		10	ms
	DC 24	DC 50 24 28	DC 50 50 24 28 30 104 80

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC -	6 6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 50	GHz
VSWR, Max	1.3:	1 1.4:1	1.5:1	1.7:1	1.9:1	
Insertion Loss, Max	0.3	0.4	0.5	0.7	1.1	dB
Isolation, Min	70	60	60	55	50	dB
Power In, Max (CW)	80	60	50	20	5	Watts

#### **Mechanical Specifications**

**Size** 

Length 1.5 in [38.1 mm]
Width/Diameter 1.5 in [38.1 mm]
Height 0.5 in [12.7 mm]
Weight 0.0995 lbs [45.13 g]
Body Material and Plating Aluminum, Nickel
Package Type Connectorized
Operating Life 2,000,000 Cycles

#### **Connectors**

RF Connector Type RF Connector Contact Material & Plating RF Connector Body Material & Plating Control Connector 2.4mm Female Beryllium Copper, Gold Passivated Stainless Steel Solder Pin



#### Features:

- Single Pole Double Throw (SPDT) Relay Switch
- DC to 50 GHz Frequency Range
- 2M Cycle Operating Life Min
- Failsafe Actuator
- Insertion Loss 0.3 dB typ
- · Isolation 90 dB typ
- 80 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 -25 to 70 deg C Storage Range -40 to 85 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

SPDT Failsafe DC to 50 GHz Electro-Mechanical Relay Switch, up to 80W, 28V, 2.4mm 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SPDT Failsafe DC to 50 GHz Electro-Mechanical Relay Switch, up to 80W, 28V, 2.4mm FMSW6329

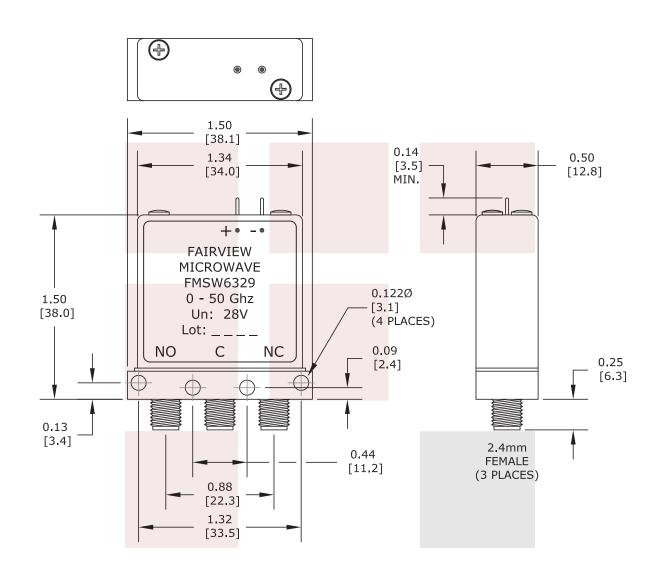
URL: https://www.fairviewmicrowave.com/spdt-failsafe-electromechanical-relay-switch-fmsw6329-p.aspx

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STANDARD TOLERANCES
DECIMAL
±0.02

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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SPDT Failsafe DC to 50 GHz Electro-Mechanical Relay Switch, up to 80W, 28V, 2.4mm	DWG NO FMSW6329		CAGE CODE 3FKR5		
	CAD FILE 030117	SHEET	SCAL	E N/A	SIZE A