



SP3T Latching DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 28V, SMA

The FMSW6362 is a Single Pole Three Throw (SP3T) electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Latching actuator and is rated for 5M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 80 dB typical. The Latching actuator has a +28 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and a 15 Pin D-Sub Connector for DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type SP3T Actuator Type Latching

Switching Sequence Break before Make

Description	Min	Тур	Max	Units			
Frequency Range	DC		18	GHz			
Impedance		50		Ohms			
Operating Voltage	26	28	30	Volts			
Actuating Current @ 28 Vo	lts	90		mA			
VSWR		1.2:1	1.4:1				
Insertion Loss		0.15	0.4	dB			
Insertion Loss Repeatability							
Isolation	80	80		dB			
Input Power (CW)			60	Watts			
Switching Time			20	ms			

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18			GHz
VSWR, Max	1.2:1	1.3:1	1.4:1			
Insertion Loss, Max	0.15	0.25	0.4			dB
Isolation, Min	80	80	80			dB
Power In, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Size

Weight 0.353 lbs [160.12 g]
Package Type Connectorized

Operating Life 5,000,000 Cycles

Connectors

RF Connector Type SMA Female Control Connector 15 Pin D-Sub



Features:

- Single Pole Three Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Latching Actuator
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- 15 Pin D-Sub Connector for DC Control
- Hot Switching Capability
 Capability
 - Consult Factory
- S-Parameter Data available upon request

Applications:

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

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Environmental Specifications

Temperature

Operating Range -25 to +70 deg CStorage Range -55 to +100 deg C

Shock MIL-STD-202 Method 213, Cond. D 500G Non Operating Vibration MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

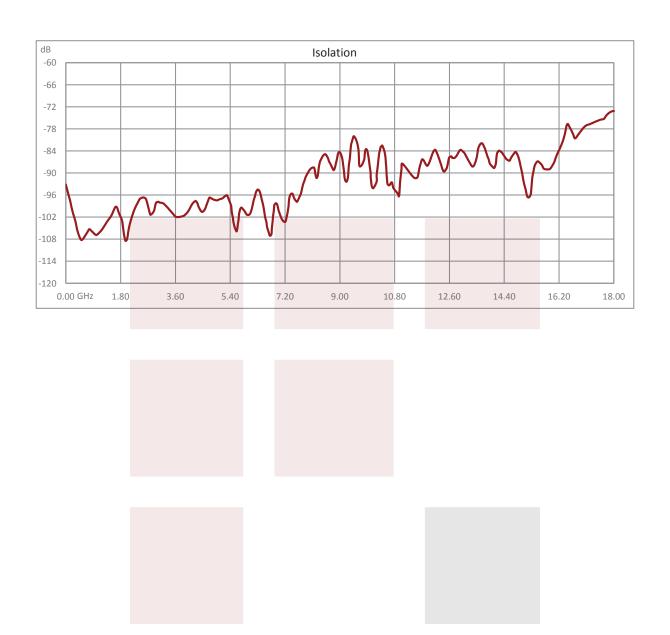
Plotted and Other Data

Notes:



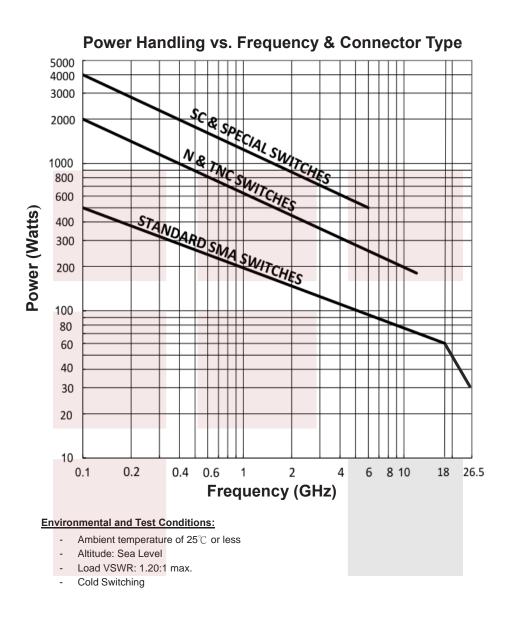














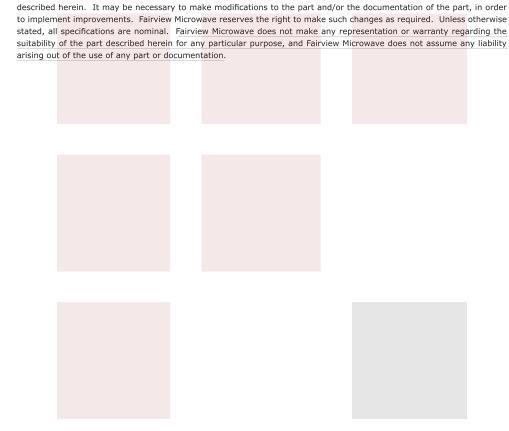


SP3T Latching DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 28V, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SP3T Latching DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 28V, SMA FMSW6362

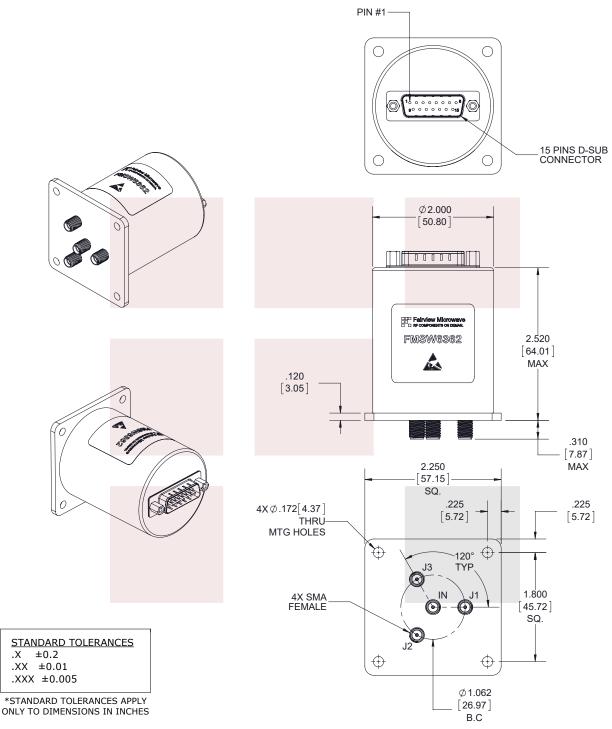
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/sp3t-latching-18-ghz-electro-mechanical-relay-switch-60w-28v-sma-fm-sw6362-p.aspx





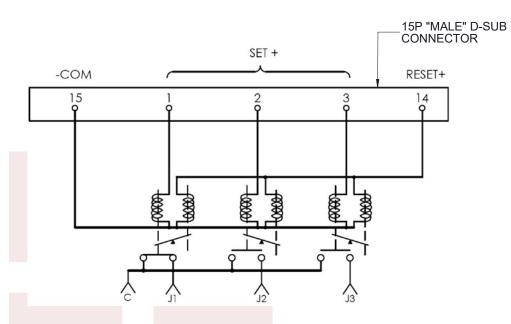




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SP3T Latching DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 28V, SMA	DWG NO FMSW6362			CAGE CODE 3FKR5		
	CAD FILE 091117	SHEET 1 OF 2	SCAL	E N/A	SIZE A	7361







SCHEMATIC SHOWN IN LATCHING POSITION

(COIL 1 SHOWN LAST ENERGIZED)

TERMINALS	RF PATH			
D-SUB PIN ASSIGNMENT	J1	J2	J3	
1 (SET+)	ОИ	OFF	OFF	
2 (SET+)	OFF	ON	OFF	
3 (SET+)	OFF	OFF	ОИ	
14 (RESET+)	ALL OFF			

PIN 15. -COM

STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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