



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

The FMSW6395 is a Single Pole Double Throw (SPDT) 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 with 1W Indicators, and is rated for 5M life cycles for high reliability operation. Insertion loss is specified as low as 0.15 dB maximum and Isolation up to 80 dB minimum. Operating voltage is +28 V and performance is guaranteed over -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and Solder Pins for DC Control. The model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.



Switch Type

Actuator Type

Syltching Sequence

Actuator Options

Indicator Rating

Syltching Sequence

Break before Make

Indicators

Indicator Rating

1 Watts / 32 Volts / 125 mA

Description Min Typ Max Units Frequency Range DC 18 GHz **Impedance** 50 Ohms 28 Volts Operating Voltage 26 30 Actuating Current @ 28 Volts 90 mA **VSWR** 1.2:1 1.4:1 Insertion Loss 0.15 0.35 dB Insertion Loss Repeatability 80 Isolation 65 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	0.35			dB
Isolation, Min	80	75	65			dB
Power In, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Size

Weight 0.105 lbs [47.63 g]
Package Type Connectorized

Operating Life 5,000,000 Cycles



Features:

- Single Pole Double 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
- 1 Watt Indicators
- -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
- Solder Pins for DC Control
- Hot Switching Capability
 - Consult Factory
- S-Parameter Data available upon request

Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

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Connectors

RF Connector Type SMA Female Control Connector Solder Pin

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)

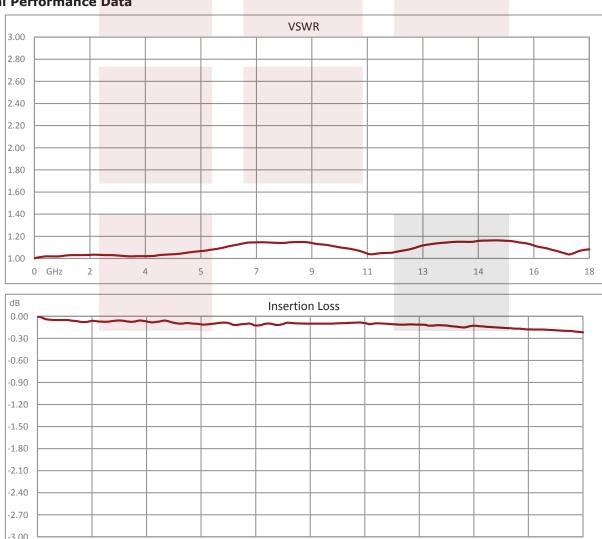
Plotted and Other Data

Notes:

Typical Performance Data

0.00GHz

1.80



1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

9.00

5.40

7.20

3.60

10.80

12.60

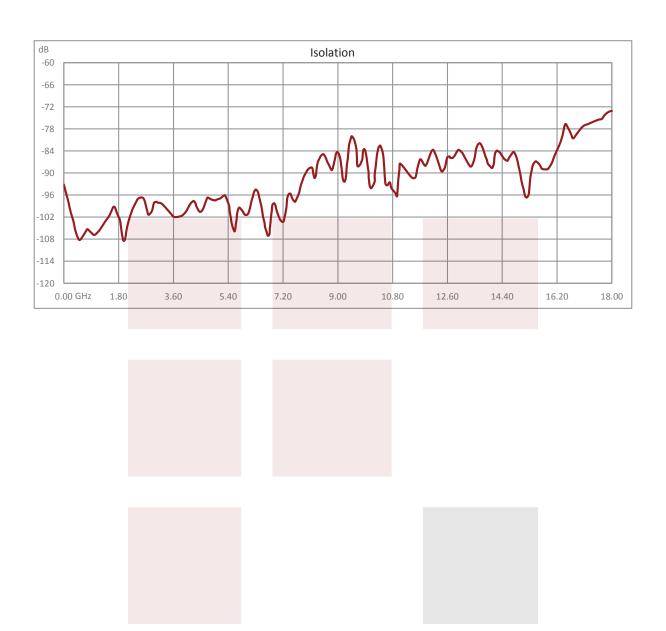
14.40

16.20

18.00

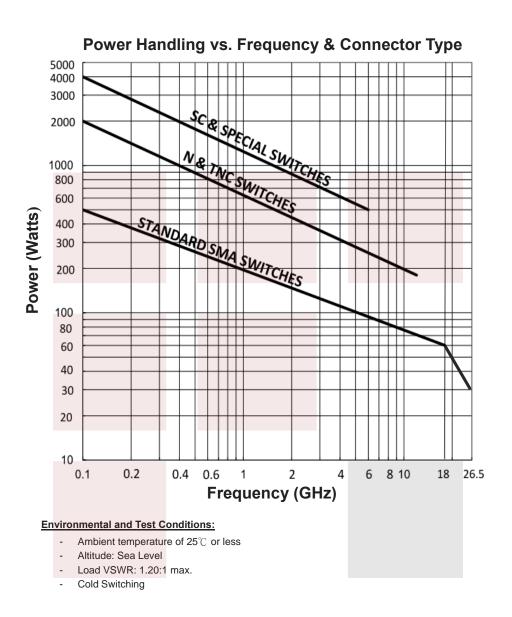












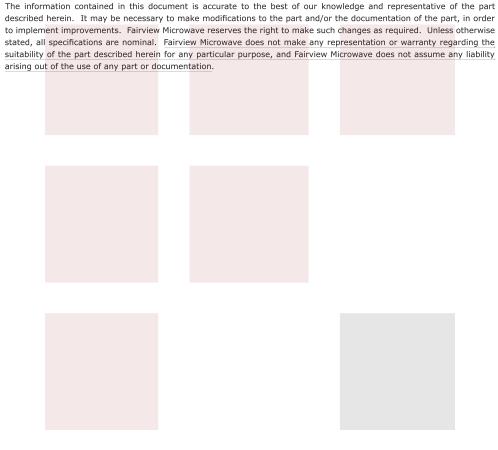




SPDT Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave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

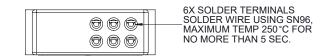
For additional information on this product, please click the following link: SPDT Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA FMSW6395

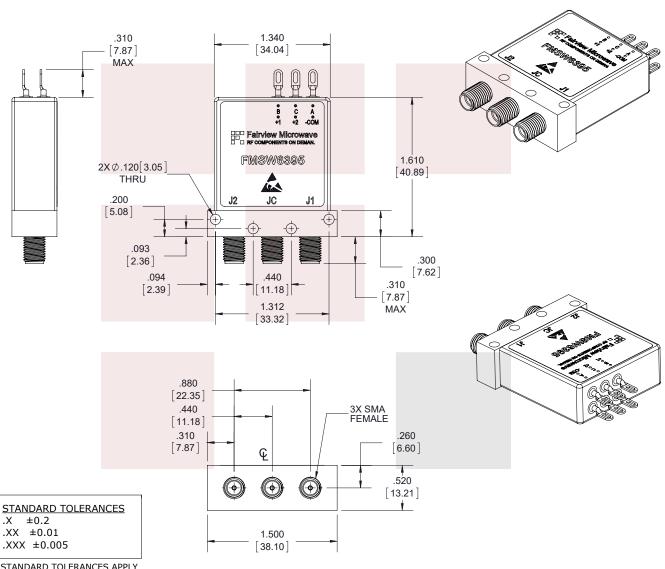
URL: https://www.fairviewmicrowave.com/spdt-latching-18-ghz-electro-mechanical-relay-switch-indicators-60w-28v-sma-fmsw6395-p.aspx









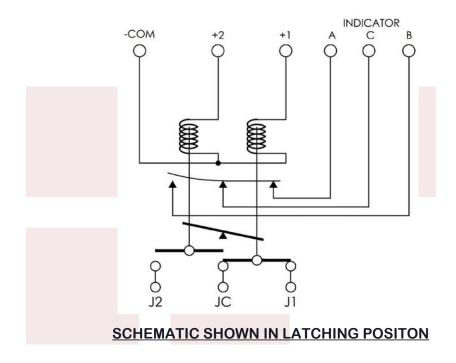


*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].						
SPDT Latching DC to 18 GHz Electro-Mechanical Relay	DWG NO FMSW6395				CAGE CODE 3FKR5		
Switch, Indicators, up to 90W, 28V, SMA	CAD FILE 090617	SHEET 1 OF 2	SCAL	E N/A	SIZE A	7361	







STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

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SPDT Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA	DWG NO FMSW6395				CAGE CODE 3FKR5		
	CAD FILE 090617	SHEET 2 OF 2	SCAL	E N/A	SIZE A	7361	