

**SP6T Latching Electro-Mechanical Relay
Switch From DC to 22 GHz, 20 Watts
with Self Cut Off, Diodes, SMA**

FMSW6314 is a Single Pole Six Throw Absorptive Switch that operates from DC to 22 GHz. The switch has a latching actuator and 1M life cycles. The switch has an operating voltage of 28 Volts.

Electrical Specifications

Switch Type	SP6T, Absorptive
Actuator Type	Latching
Switching Sequence	Break Before Make
Actuator Options	Self Cut Off, Diodes
Polarity	Positive

Description	Min	Typ	Max	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Volts		145		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW) (22 GHz)			20	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8	8 - 12	12 - 18	18 - 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.3	0.35	0.4	0.5	0.6	dB
Isolation, Min	75	70	65	60	60	dB

Mechanical Specifications

Size	
Length	2.13 in [54.1 mm]
Width/Diameter	2.13 in [54.1 mm]
Height	2.33 in [59.18 mm]
Weight	0.625 lbs [283.5 g]
Body Material and Plating	Aluminum, Nickel
Operating Life	1,000,000 Cycles
Switching Time	20 ms Max

Connectors

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



Features:

- SP6T Absorptive Switch
- DC to 22 GHz Operating Frequency Range
- 1 M Cycles min

Applications:

- Test & Measurement
- Communications System
- Instrumentation

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range

ESD Sensitivity

-25 to +65 deg C

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

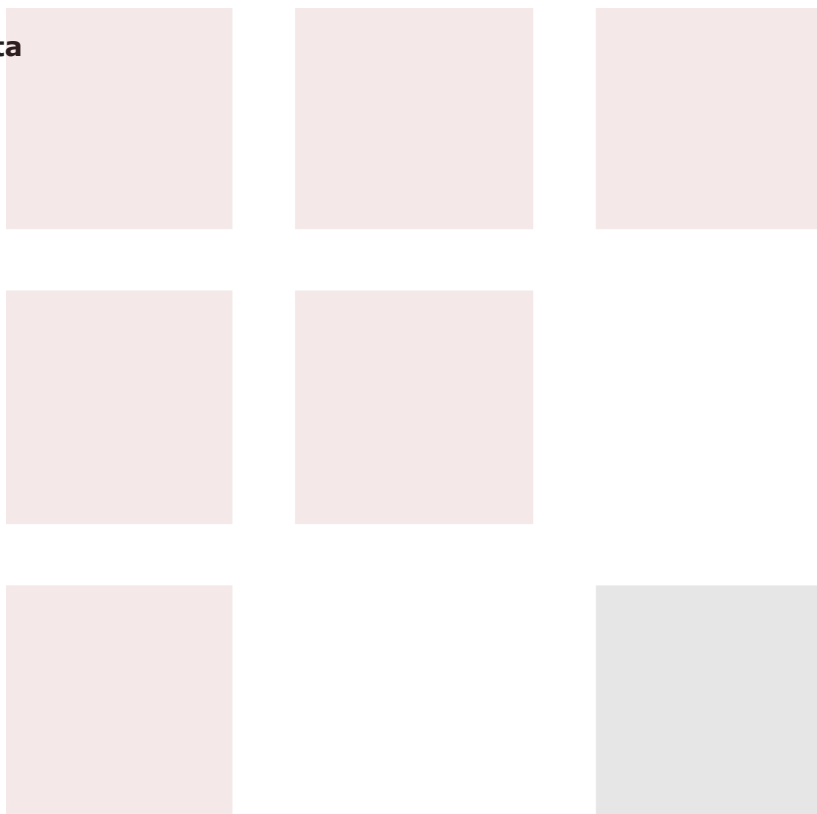


Compliance Certifications (visit www.FairviewMicrowave.com for current document)

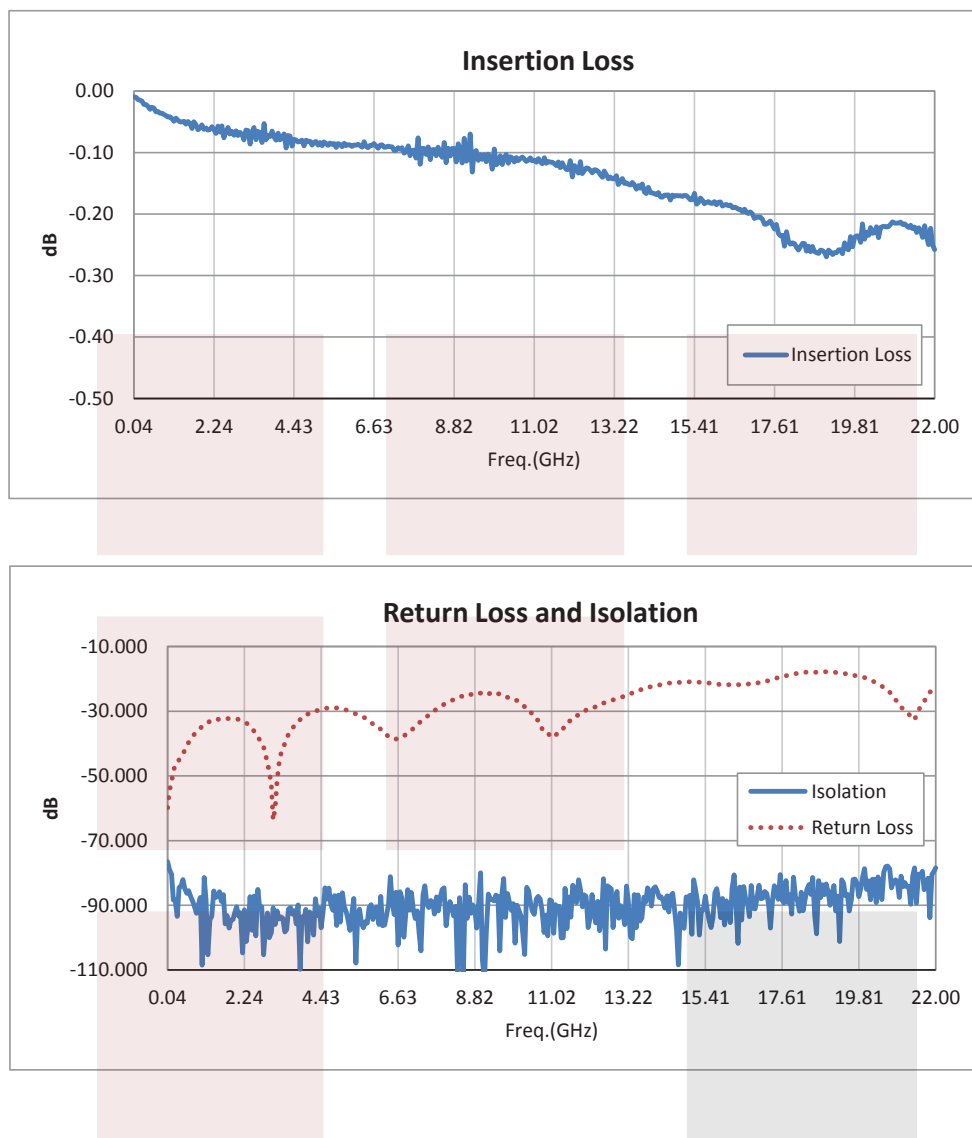
RoHS Compliant

Plotted and Other Data

Notes:



Typical Performance Data



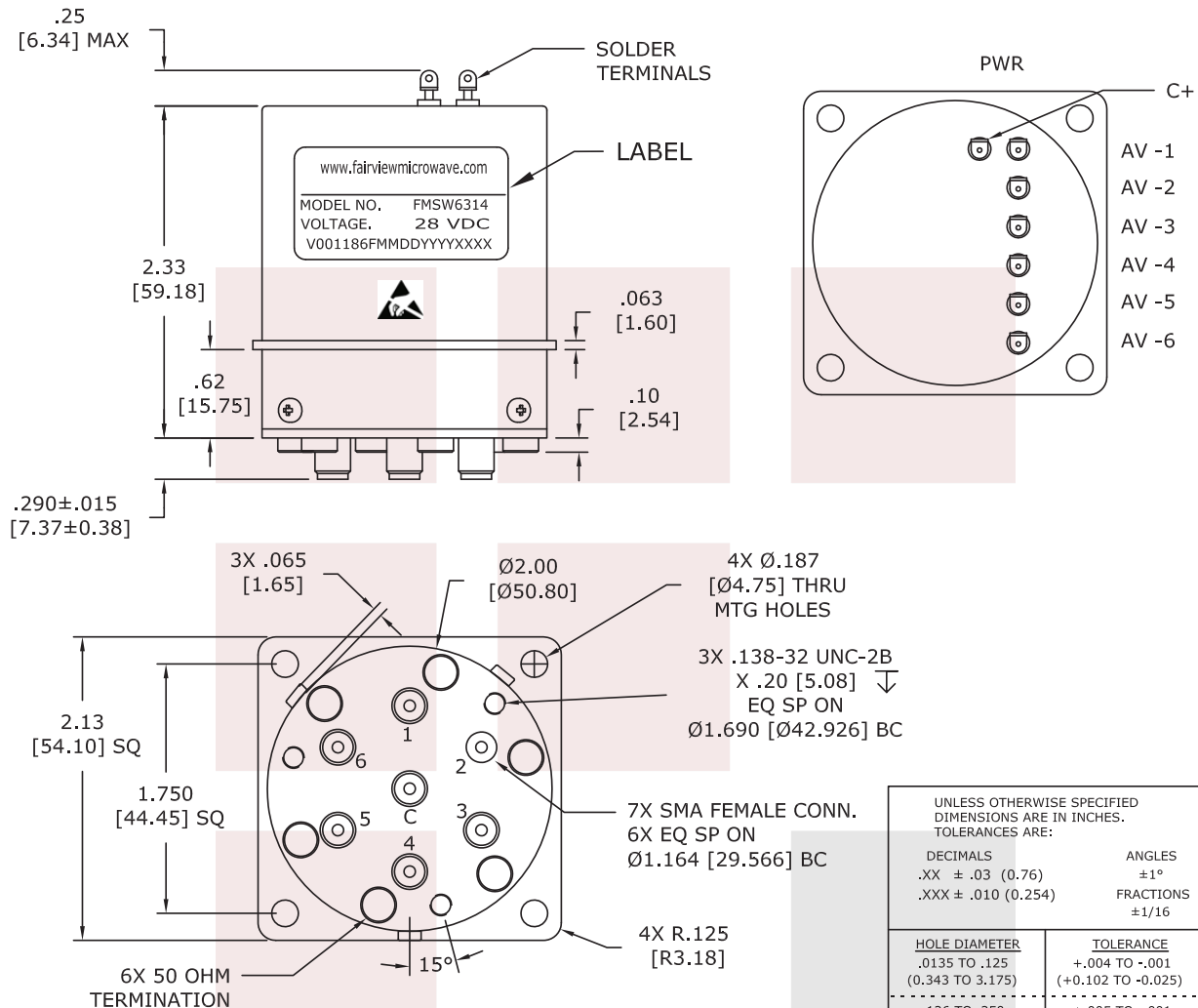
SP6T Latching Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Self Cut Off, Diodes, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SP6T Latching Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Self Cut Off, Diodes, SMA FMSW6314](#)

URL: <http://www.fairviewmicrowave.com/sp6t-latching-electro-mechanical-relay-switch-self-cut-off-fmsw6314-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.

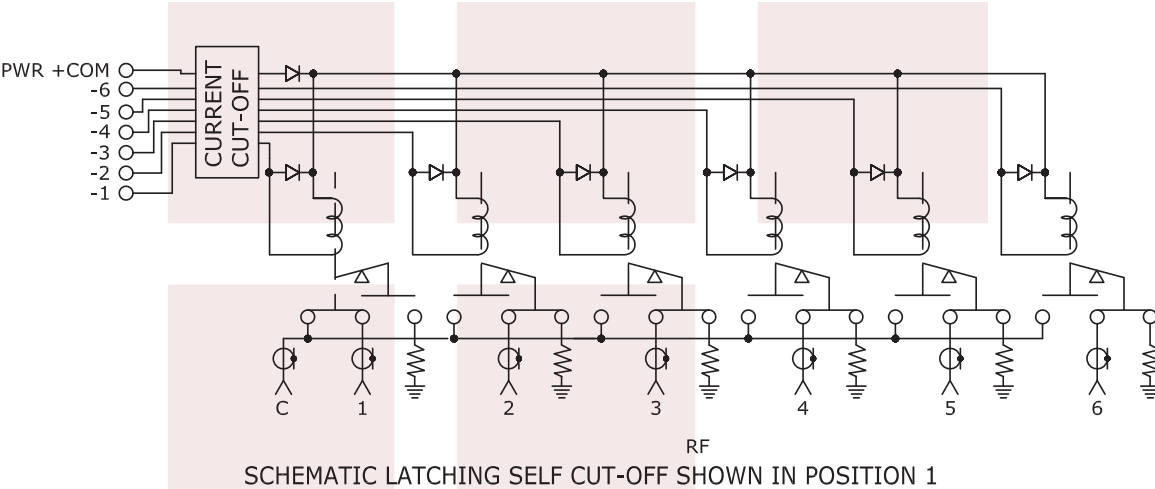




UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
DECIMALS .XX ± .03 (0.76) .XXX ± .010 (0.254)	ANGLES ±1° FRACTIONS ±1/16
HOLE DIAMETER	TOLERANCE
.0135 TO .125 (0.343 TO 3.175)	+.004 TO -.001 (+.0102 TO -.0025)
.126 TO .250 (3.200 TO 6.350)	+.005 TO -.001 (+.0127 TO -.0025)
.251 TO .500 (6.375 TO 12.700)	+.006 TO -.001 (+.0152 TO -.0025)
.501 TO .750 (12.725 TO 19.050)	+.008 TO -.001 (+.0203 TO -.0025)
.751 TO 1.000 (19.075 TO 25.400)	+.010 TO -.001 (+.0254 TO -.0025)
1.001 TO 2.000 (25.425 TO 50.800)	+.012 TO -.001 (+.0305 TO -.0025)

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

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].			
TITLE SP6T Latching Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Self Cut Off, Diodes, SMA	DWG NO FMSW6314		CAGE CODE 3FKR5		
	CAD FILE 090815	SHEET	SCALE N/A	SIZE A	2233



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].			
TITLE SP6T Latching Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Self Cut Off, Diodes, SMA	DWG NO FMSW6314		CAGE CODE 3FKR5		
	CAD FILE 090815	SHEET	SCALE N/A	SIZE A	2233