



SP4T Latching Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts with Indicators, TTL, Self Cut Off, Diodes, 2.92mm

FMSW6320 is a Single Pole Four Throw (SP4T) 50 Ohm Terminated RF Coaxial Relay Switch that operates from DC to 40 GHz and can handle up to 3 Watts of CW input power at 40 GHz, in a Break Before Make condition. The design features a Latching Actuator with indicators, and is rated for 1M Life Cycles. Insertion Loss is specified from 0.2 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92 mm female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Actuator Options

TTL Control

SP4T, Absorptive Latching Break Before Make

Indicators, TTL Logic, Self Cut Off,

Diodes

on: 2.4 to 5 Volts off: 0 to 0.8 Volts

Description	Min	Тур	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Vo	lts	300		mA
VSWR			2:1	
Insertion Loss			1	dB
Isolation	50			dB
Input Power (CW) (40 GHz)			3	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18	18 - 26.5	26.5 - 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	1	dB
Isolation, Min	70	60	60	55	50	dB

Mechanical Specifications

Size

 Length
 2.25 in [57.15 mm]

 Width/Diameter
 2.25 in [57.15 mm]

 Height
 2.375 in [60.33 mm]

 Weight
 0.529 lbs [239.95 g]

 Body Material and Plating
 Aluminum, Nickel

Operating Life 1,000,000 Cycles Switching Time 15 ms Max



Features:

- SP4T Absorptive Switch
- DC to 40 GHz Operating Frequency Range
- 1 M Cycles min

Applications:

- Test & Measurement
- Communications System
- Instrumentation

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Connectors

RF Connector Type

RF Connector Contact Material & Plating

RF Connector Body Material & Plating

RF Connector Body Material & Plating

Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range -35 to +85 deg C

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

in ESD Workstation.



Compliance Certifications (visit www.FairviewMicrowave.com for current document)
Not RoHS Compliant

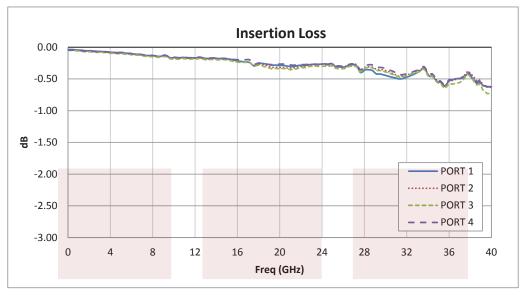
Plotted and Other Data

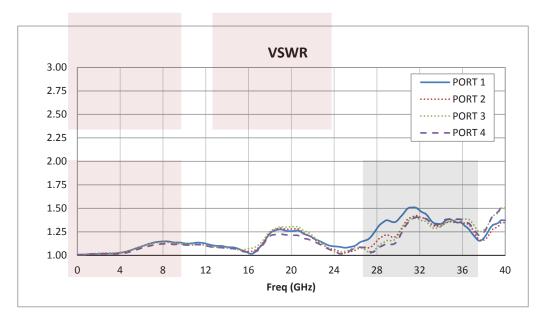
Notes:





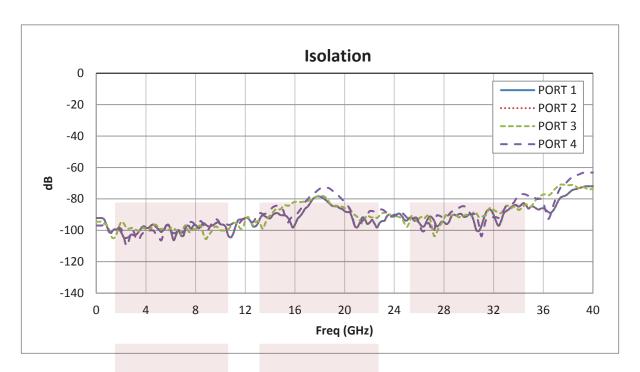
Typical Performance Data











SP4T Latching Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts with Indicators, TTL, Self Cut Off, Diodes, 2.92mm 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.

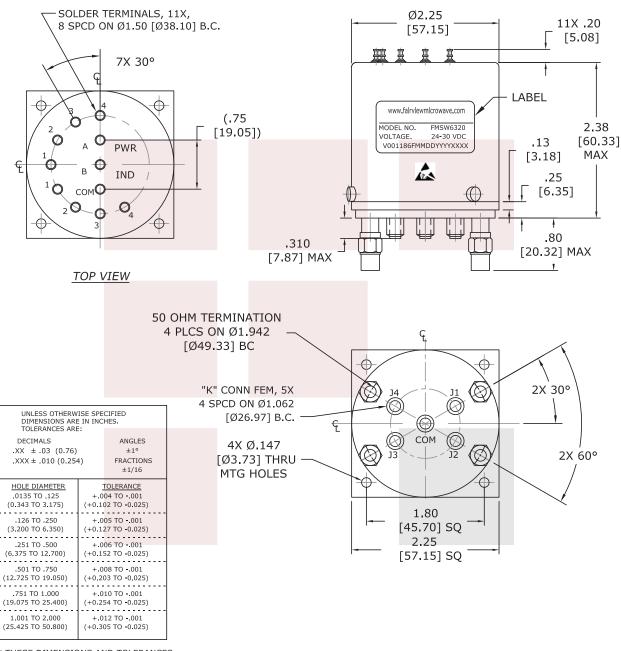
For additional information on this product, please click the following link: SP4T Latching Electro-Mechanical Relay Switch From DC to 40 GHz, 3 Watts with Indicators, TTL, Self Cut Off, Diodes, 2.92mm FMSW6320

URL: http://www.fairviewmicrowave.com/sp4t-latching-electro-mechanical-relay-switch-indicators-ttl-self-cut-off-diodes-fmsw6320-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.





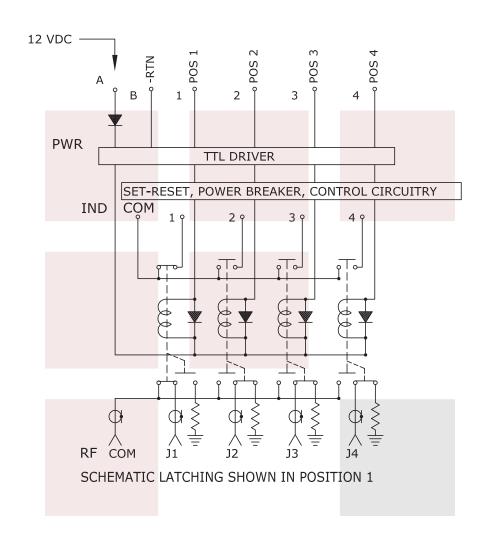


^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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	CAD FILE 122115	SHEET	SCALE N	N/A SIZE A	. 2233	







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