

SP4T Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 3 Watts, 12V Control, Self Cut Off, Reset, Diodes



Electromechanical Relay Switches Technical Data Sheet

PE71S6138

Features

- Single Pole Four Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, Reset, Suppression Diodes

- Insertion Loss 0.9 dB max
- Isolation 50 dB min
- 3 Watts Avg Power Max
- · Switching Sequence Break Before Make

Applications

• Test & Measurement

- Communications System
- Instrumentation

Description

The PE71S6138 is a Single Pole Four Throw Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 3 Watts input power (CW) in a Break Before Make condition. The design features a Latching Actuator with Self Cut Off, Reset circuitry, Suppression Diodes and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 70 dB min, with +12 Vdc operating voltage and performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92mm Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Actuator Options Polarity SP4T, Reflective Latching Break Before Make Self Cut Off, Reset, Diodes Positive Common

Description	Minimum Typical		Maximum	Units				
Frequency Range	DC		40	GHz				
Impedance		50		Ohms				
Operating Voltage	10.8	12	13.2	Volts				
Actuating Current @ 12 Volts			480	mA				
VSWR			2:1					
Insertion Loss			0.9	dB				
Isolation	50			dB				
Input Power (CW)			3	Watts				
(at 40 GHz)								

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP4T Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 3 Watts, 12V Control, Self Cut Off, Reset, Diodes PE71S6138

ISO 9001 : 2008 Registered





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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 18	18 to 26.5	26.5 to 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	8.0	0.9	dB
Isolation, Min	70	60	60	55	50	dB

Mechanical Specifications

Size

Length

Width/Diameter

Height

Weight

Body Material and Plating

Package Type

Operating Life

Switching Time

Connectors

RF Connector Type

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

Control Connector

Environmental Specifications

Temperature

Operating Range

ESD Sensitivity

2.375 in [60.33 mm] 2.25 in [57.15 mm]

2.25 in [57.15 mm]

0.476 lbs [215.91 g]

Aluminum

Connectorized Module

1,000,000 Cycles

35 ms Max

2.92mm Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-35 to +85 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes:

Designed to meet MIL-DTL-3928

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

Not RoHS Compliant

Plotted and Other Data

Notes:

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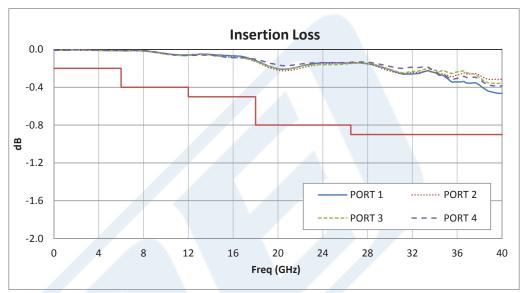


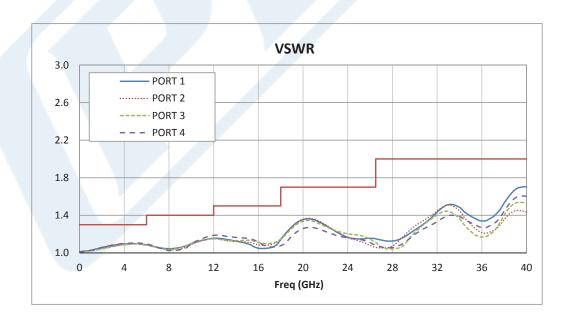
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Typical Performance Data





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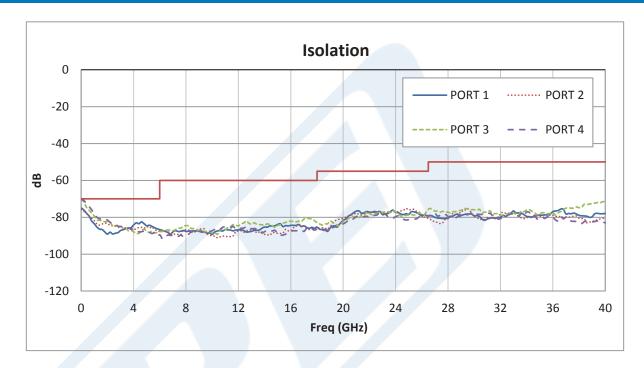


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URL: http://www.pasternack.com/2.92mm-sp4t-electromechanical-relay-switch-40-ghz-latching-pe71s6138-p.aspx

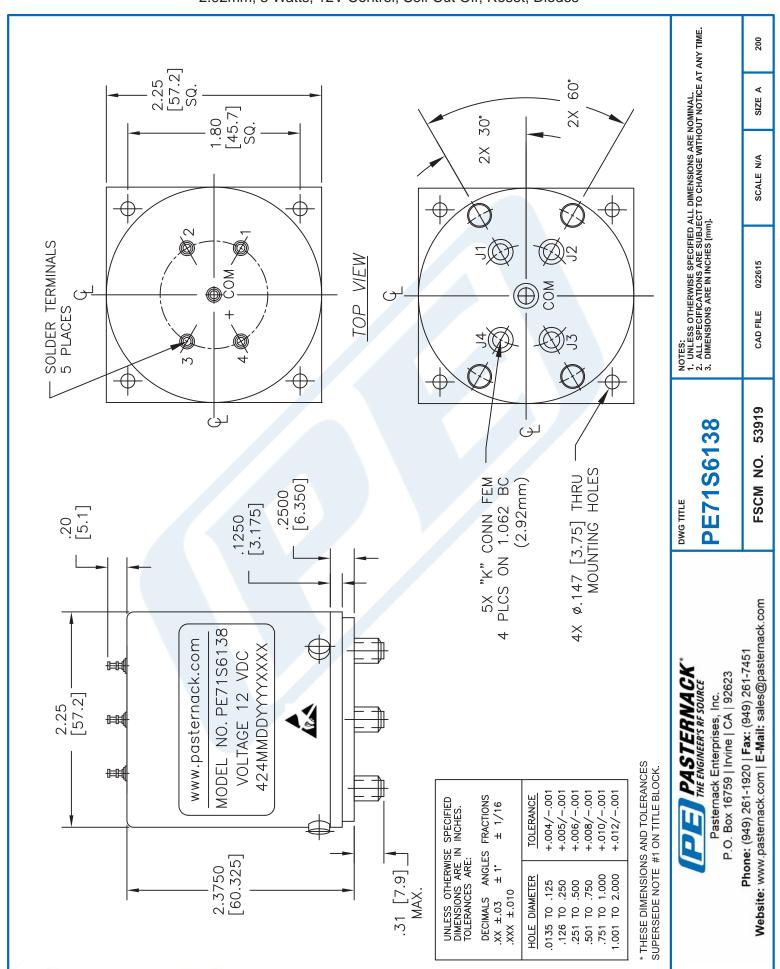
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PE71S6138 CAD Drawing

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