



Electromechanical Relay Switches Technical Data Sheet

PE71S6078

Features

- Single Pole Six Throw Relay Switch
- DC to 40 GHz Frequency Range
- 2M Cycle Min Operating Life
- 5 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 1.1 dB Max
- VSWR 2.2:1 Max

Applications

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

Description

The PE71S6078 is a Single Pole Six Throw Electromechanical Relay Switch that operates from DC to 40 GHz and can handle up to 40 Watts of CW input power in a Break Before Make condition. The design features a Latching Actuator with Diodes, Self Cut Off and Reset circuitry and is rated for 2M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -40°C to +85°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and 2.92mm Female connectors.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Polarity
Reset Current
Self Cut-Off Time

SP6T, Reflective
Latching
Break before Make
Self Cut Off, Reset, Diodes
Negative Common
750 mA
40 ms < CT < 120 ms

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Current @ 28 Volts		125		mA
VSWR			2.2:1	
Insertion Loss			1.1	dB
Isolation	50			dB
Input Power (CW)			5	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 Watts, 28V Control with Self Cut Off, Reset, Diodes PE71S6078

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451







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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 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	2.2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	1.1	dB
Isolation, Min	70	60	60	55	50	dB
Input Power, Max (CW)	40	30	25	15	5	Watts

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C. Reset: supply voltage time 1 sec max./10% duty cycle.

Mechanical Specifications

Size

 Length
 2.19 in [55.63 mm]

 Width/Diameter
 2.25 in [57.15 mm]

 Height
 2.25 in [57.15 mm]

 Weight
 0.49 lbs [222.26 g]

 Package Type
 Connectorized Module

 Operating Life
 2,000,000 Cycles

Switching Time
Connectors

RF Connector Type 2.92mm Female
RF Connector Specification MIL C 39012
Control Connector Solder Pins

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +85 deg C

Construction Splashproof

Humidity MIL-DTE-3928E, Cond.B

Shock MIL-STD-202, Method 213B, Cond.C

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15 ms Max

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Vibration ESD Sensitivity MIL-STD-202, Method 204D, Cond.D ESD Sensitive Material. Transport material in approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes: Environmental specifications are guaranteed but not tested.

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant
REACH Compliant
12/17/2014

Plotted and Other Data

Notes:

Values shown are typical at 25°C.

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Typical Performance Data





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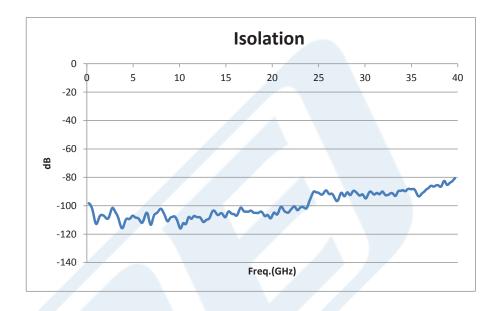
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SP6T Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 Watts, 28V Control with Self Cut Off, Reset, Diodes from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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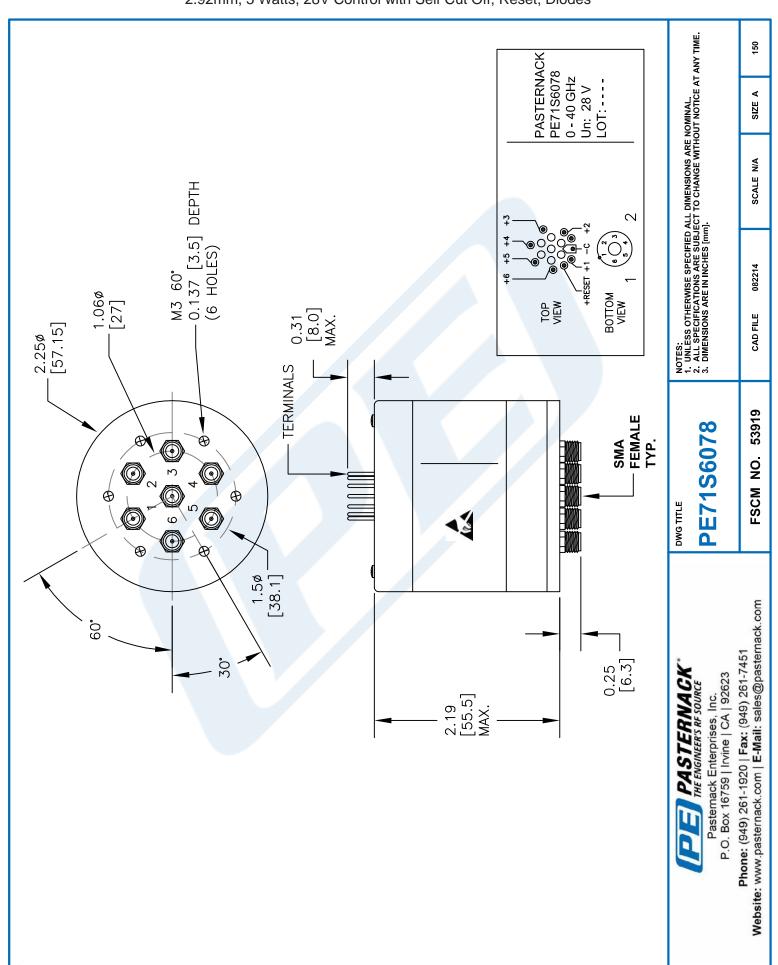
URL: http://www.pasternack.com/2.92mm-sp6t-electromechanical-relay-switch-40-ghz-latching-pe71s6078-p.aspx

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE71S6078 CAD Drawing

SP6T Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 Watts, 28V Control with Self Cut Off, Reset, Diodes



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SP6T Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 Watts, 28V Control with Self Cut Off, Reset, Diodes

