



Electromechanical Relay Switches Technical Data Sheet

PE71S6060

Features

- Single Pole Double Throw Terminated Relay Switch
- DC to 18 GHz Frequency Range
- 2M Cycle Min Operating Life
- 100 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.5 dB Max
- VSWR 1.5:1 Max

Applications

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

Description

The PE71S6060 is a Terminated SPDT Electromechanical Relay Switch that operates from DC to 18 GHz and can handle up to 240 Watts of CW input power in a Break Before Make condition. The design features a Failsafe Actuator with Terminations and is rated for 2M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 80 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 SMA Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence SPDT, Terminated Failsafe Break before Make

Minimum	Typical	Maximum	Units	
DC		18	GHz	
	50		Ohms	
24	28	30	Volts	
	204		mA	
		1.5:1		
		0.5	dB	
60			dB	
		100	Watts	
		10	ms Max	
	DC 24	DC 50 24 28 204	DC 18 50 24 28 30 204 1.5:1 0.5 60 100	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 18 GHz, up to 240W, 28V, SMA PE71S6060

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

F1	F2	F3	F4	F5	Units
DC to 3	3 to 8	8 to 12.4	12.4 to 18		GHz
1.2:1	1.3:1	1.4:1	1.5:1		
0.2	0.3	0.4	0.5		dB
80	70	60	60		dB
240	150	120	100		Watts
	DC to 3 1.2:1 0.2 80	DC to 3 3 to 8 1.2:1 1.3:1 0.2 0.3 80 70	DC to 3 3 to 8 8 to 12.4 1.2:1 1.3:1 1.4:1 0.2 0.3 0.4 80 70 60	DC to 3 3 to 8 8 to 12.4 12.4 to 18 1.2:1 1.3:1 1.4:1 1.5:1 0.2 0.3 0.4 0.5 80 70 60 60	DC to 3 3 to 8 8 to 12.4 12.4 to 18 1.2:1 1.3:1 1.4:1 1.5:1 0.2 0.3 0.4 0.5 80 70 60 60

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

 Length
 2.19 in [55.63 mm]

 Width/Diameter
 1.87 in [47.5 mm]

 Height
 0.56 in [14.22 mm]

 Weight
 0.25 lbs [113.4 g]

 Package Type
 Connectorized

 Operating Life
 2,000,000 Cycles

Connectors

RF Connector Type SMA Female
RF Connector Specification MIL C 39012
Control Connector Solder Pin

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

Shock MIL-STD-202, Method 213B, Cond.C Vibration MIL-STD-202, Method 204D, Cond.D

Environmental Specification Notes:

Environmental specifications are guaranteed but not tested.

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values shown are typical at 25°C.

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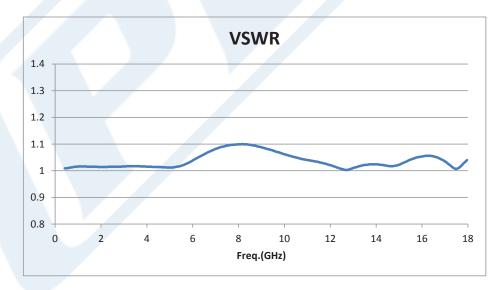


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Typical Performance Data





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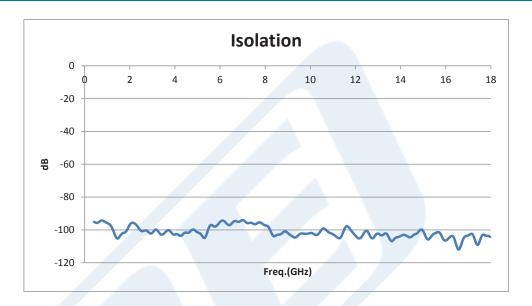
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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 18 GHz, up to 240W, 28V, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

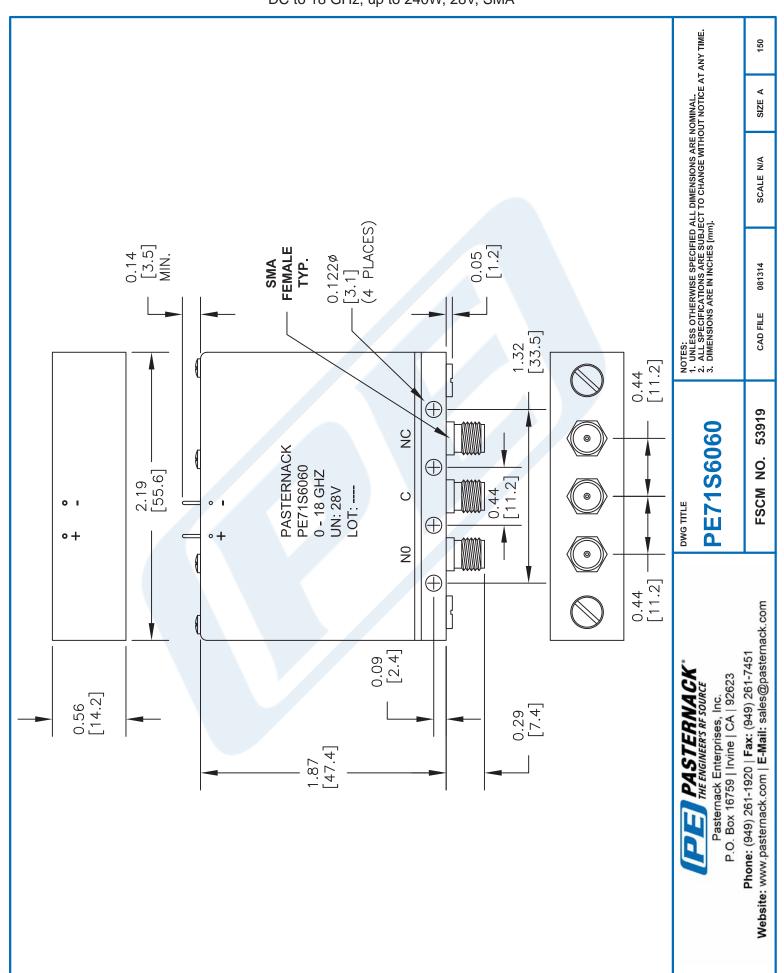
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URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-terminated-18-ghz-100w-28v-sma-pe71s6060-p.aspx

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.

PE71S6060 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 18 GHz, up to 240W, 28V, SMA



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