



Electromechanical Relay Switches Technical Data Sheet

PE71S6075

Features

- Single Pole Six Throw Relay Switch
- DC to 18 GHz Frequency Range
- 5M Cycle Min Operating Life
- 100 Watt Avg Power Max

Applications

- High Performance Relay Switch
- Military Communications

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.5 dB Max ٠
- VSWR 1.5:1 Max
- Communications Systems
- Test & Measurement

Description

The PE71S6075 is a Single Pole Six Throw 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 Normally Open Actuator and is rated for 5M 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.

ctrical Specifications Switch Type Actuator Type Switching Sequence Polarity	SP6T Normally Open Break before Make Negative Common						
Description	Minimum	Typical	Maximum	Units			
Frequency Range	DC		18	GHz			
Impedance		50		Ohms			
Operating Voltage	24	28	30	Volts			
Actuating Current @ 28 Volts		102		mA			
VSWR			1.5:1				
Insertion Loss			0.5	dB			
Isolation	60			dB			
Input Power (CW)			100	Watts			
Switching Time			15	ms Max			

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 Normally Open Switch, DC to 18 GHz, up to 240W, 28V, SMA PE71S6075

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	F 3	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 Width/Diameter Height Weight Package Type

Operating Life

Connectors

RF Connector Type RF Connector Specification Control Connector

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

Environmental Specifications

Temperature Operating Range Storage Range

Construction Humidity Shock Vibration

Environmental Specification Notes: Environmental specifications are guaranteed but not tested. 1.831 in [46.51 mm] 1.752 in [44.5 mm] 1.752 in [44.5 mm]

0.356 lbs [161.48 g] Connectorized

5,000,000 Cycles

SMA Female MIL C 39012 Solder Pin

-40 to +85 deg C -55 to +85 deg C

Splashproof MIL-DTE-3928E, Cond.B MIL-STD-202, Method 213B, Cond.C MIL-STD-202, Method 204D, Cond.D

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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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Typical Performance Data

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0

-0.05

-0.1

-0.2

-0.25

-0.3

1.4

1.3

1.2

1.1

1

0

9-0.15

2

4

6

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Insertion Loss

8

10

12

14

16

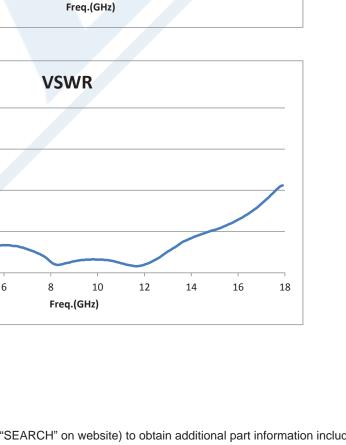
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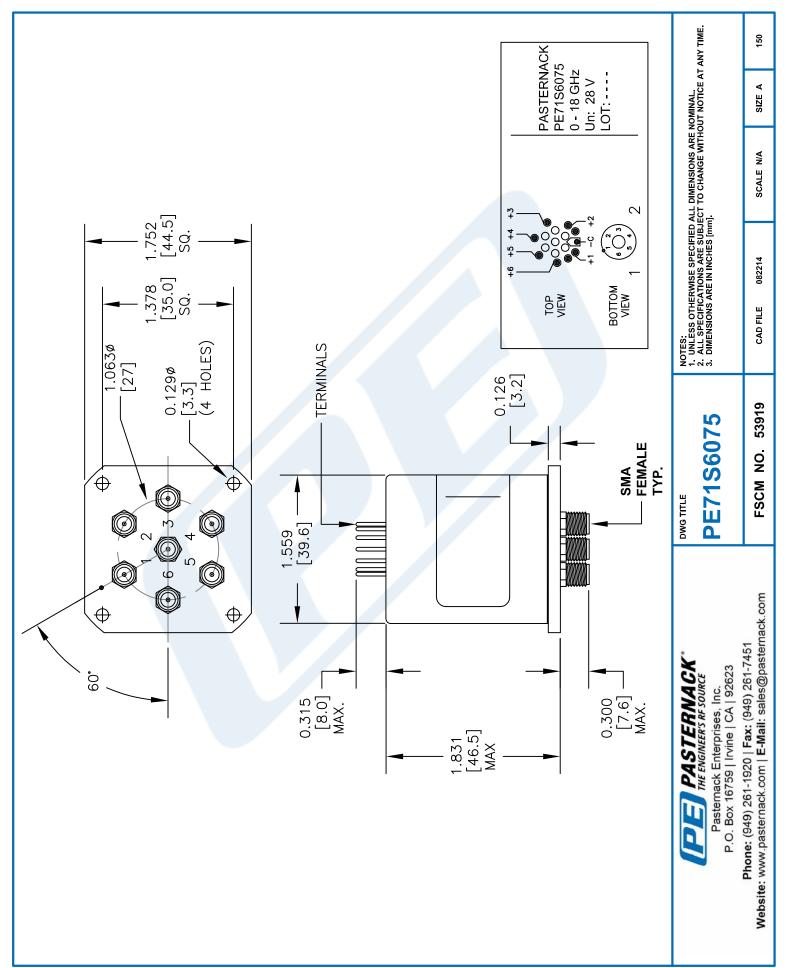
URL: https://www.pasternack.com/sma-sp6t-electromechanical-relay-switch-18-ghz-normallyopen-pe71s6075-p.aspx

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PE71S6075 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch,

DC to 18 GHz, up to 240W, 28V, SMA



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