



Electromechanical Relay Switches Technical Data Sheet

PE71S6074

Features

- Single Pole Four 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
- VSWR 1.5:1 Max
- Communications Systems
- Test & Measurement

Description

The PE71S6074 is a Single Pole Four 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.

ectrical Specifications Switch Type Actuator Type Switching Sequence Polarity	SP4T 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: SP4T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 240W, 28V, SMA PE71S6074

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





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Performance by Frequency

Description	F1	F2	F 3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18		GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1		
Insertion Loss, Max	0.2	0.3	0.4	0.5		dB
Isolation, Min	80	70	60	60		dB
Input Power, Max (CW)	240	150	120	100		Watts

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]

0.451 lbs [204.57 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

-0.2

-0.4 B -0.6

-0.8

-1

0

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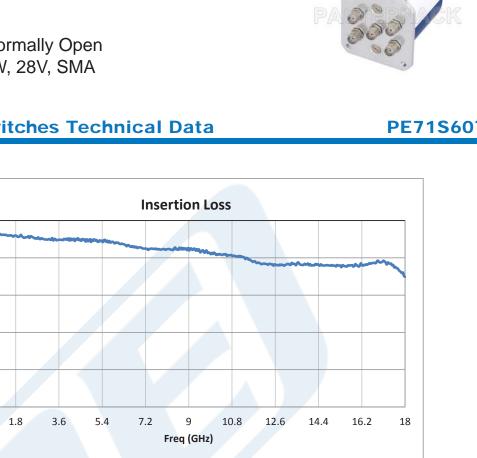
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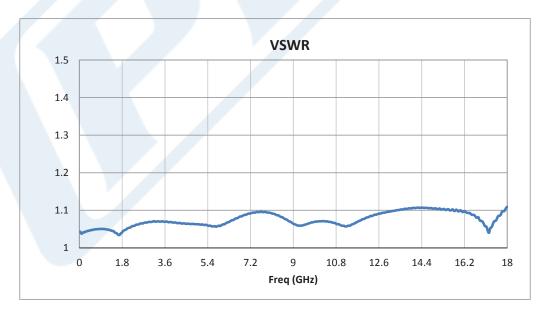
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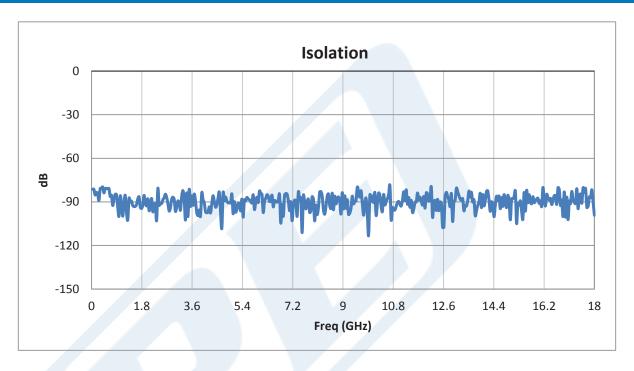
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URL: https://www.pasternack.com/sma-sp4t-electromechanical-relay-switch-18-ghz-normallyopen-pe71s6074-p.aspx

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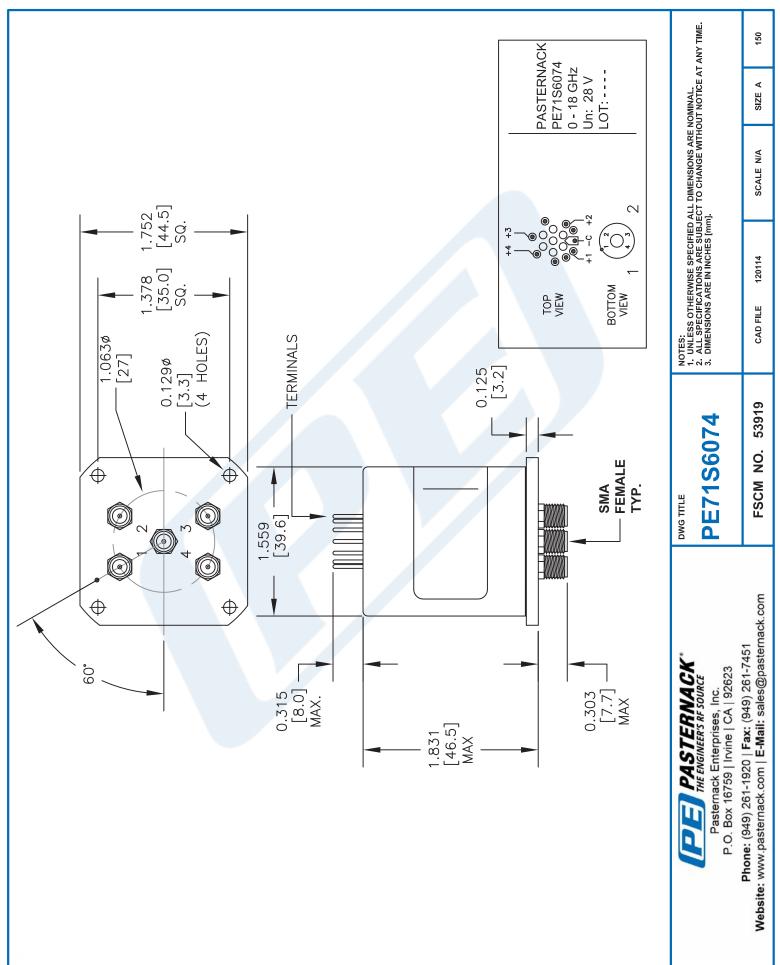
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PE71S6074 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch,

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