



Electromechanical Relay Switches Technical Data Sheet

PE71S6084

Features

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

Applications

- High Performance Relay Switch
- Military Communications

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 1.1 dB Max
 - VSWR 2.2:1 Max
- Communications Systems
- Test & Measurement

Description

The PE71S6084 is a Single Pole Six Throw Terminated 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 Terminations, Position Indicators 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 a 25 pin D-SUB Male connector and 2.92mm Female connectors.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Polarity
Indicator Rating
Reset Current

SP6T, Terminated Latching Break before Make Indicators, Reset Positive Common 1 Watts / 30 Volts / 100 mA 750 mA

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
Termination Input Power (CW)			1	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 Latching Switch, Terminated, DC to 40 GHz, up to 40W, 28V Indicators, Reset, 2.92mm PE71S6084

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 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. Termination Average Power: 1W per termination / 3W total power. Reset: supply voltage time 1 sec max/10% duty cycle.

Mechanical Specifications

Size Length Width/Diameter Height Weight Package Type

Operating Life

Connectors

RF Connector Type RF Connector Specification Control Connector

Environmental Specifications

Temperature Operating Range Storage Range

Construction Humidity Shock Vibration

Environmental Specification Notes: Environmental specifications are guaranteed but not tested. 2.5 in [63.5 mm] 2.25 in [57.15 mm] 2.25 in [57.15 mm]

0.676 lbs [306.63 g] Connectorized

2,000,000 Cycles

2.92mm Female MIL C 39012 DB-25 Male

-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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0

-0.1

-0.2

-0.4

-0.5

-0.6

9 -0.3

5

10

15

Typical Performance Data

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VSWR 1.6 1.5 1.4 1.3 1.2 1.1 1 5 10 0 15 20 25 30 35 40 Freq.(GHz)

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Insertion Loss

25

30

35

40

20

Freq.(GHz)

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SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, up to 40W, 28V Indicators, Reset, 2.92mm 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.

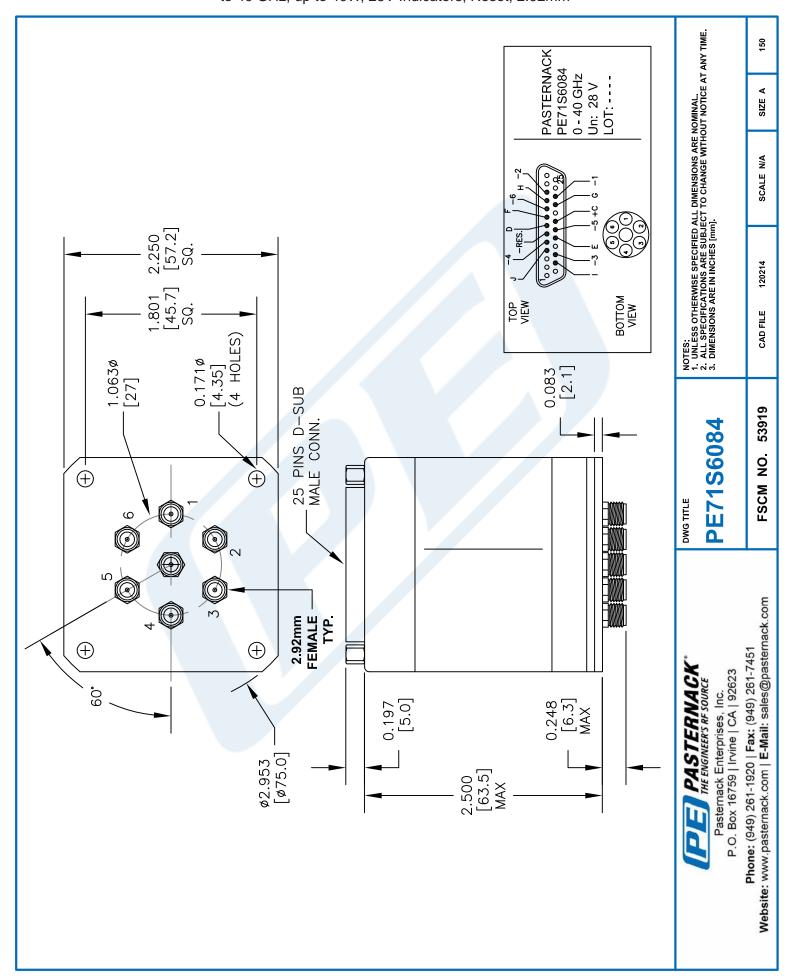
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URL: https://www.pasternack.com/2.92mm-sp6t-electromechanical-relay-switch-40-ghz-latching-pe71s6084-p.aspx

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PE71S6084 CAD Drawing

SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, up to 40W, 28V Indicators, Reset, 2.92mm



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