



Electromechanical Relay Switches Technical Data Sheet

PE71S6063

Features

- Single Pole Double Throw Terminated Relay Switch
- DC to 18 GHz Frequency Range
- 2M 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 PE71S6063 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 Latching Actuator with Terminations, TTL Logic 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 Actuator Options Polarity TTL Control SPDT, Terminated Latching Break before Make TTL Logic Negative Common on: 2.2 to 5.5 Volts off: 0 to 0.8 Volts 0.8 mA at 5.5 Volts 0.02 mA at 0.8 Volts

TTL Control Current

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Set Current @ 28 Volts		160		mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	60			dB
Input Power (CW)			100	Watts
Switching Time			10	ms Max

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 Latching Switch, Terminated, DC to 18 GHz, up to 240W, 28V, TTL, SMA PE71S6063

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	F3	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 Shock 2.19 in [55.63 mm] 1.87 in [47.5 mm] 0.56 in [14.22 mm]

0.22 lbs [99.79 g] Connectorized

2,000,000 Cycles

SMA Female MIL C 39012 Solder Pin

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

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

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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 (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

8 -0.15

1.6

1.5

1.4 1.3

1.2 1.1

> 1 + 0

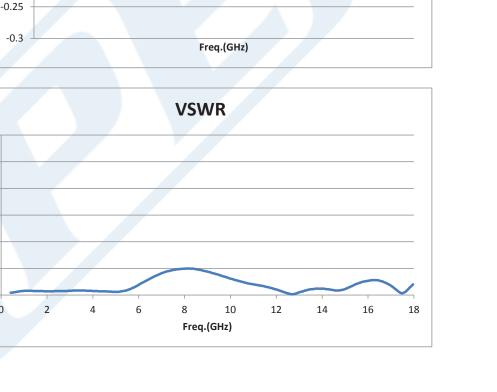
2

4

6

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Insertion Loss

8

10

12

14

16

18



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SPDT Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 240W, 28V, TTL, 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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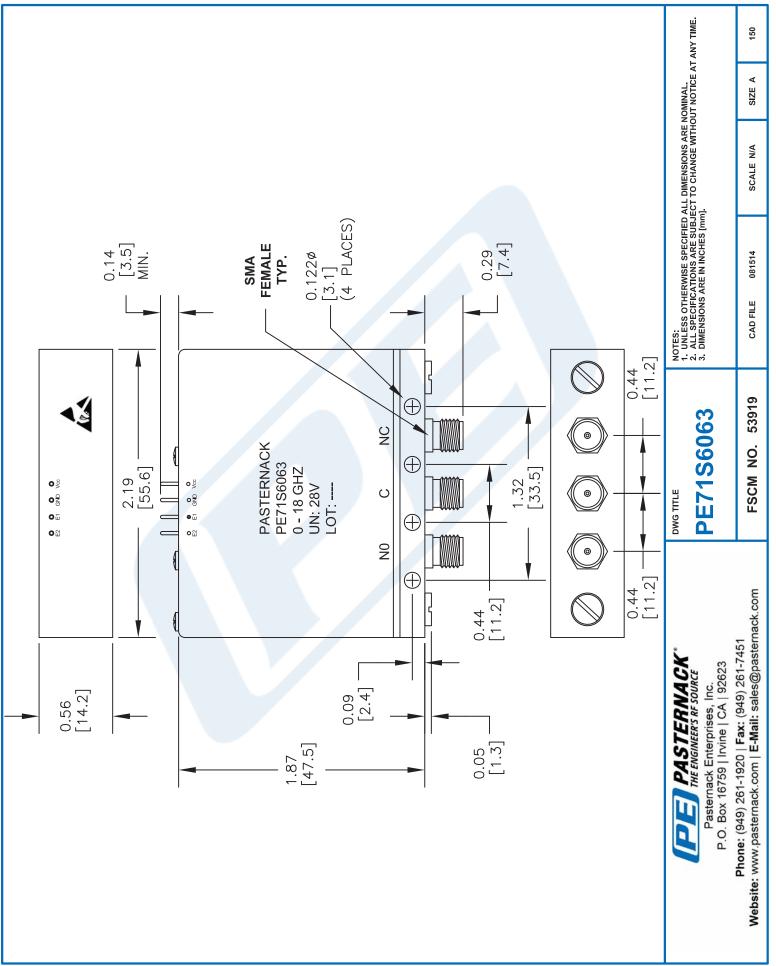
URL: https://www.pasternack.com/sma-transfer-terminated-electromechanical-relay-switch-18-ghz-indicators-pe71s6063-p. aspx

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PE71S6063 CAD Drawing

SPDT Electromechanical Relay Latching Switch, Terminated,





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SPDT Electromechanical Relay Latching Switch, Terminated,

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

