



Electromechanical Relay Switches Technical Data Sheet

PE71S6069

Features

- Transfer Relay Switch
- DC to 18 GHz Frequency Range
- 2.5M 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 PE71S6069 is a Transfer 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 Position Indicators circuitry and is rated for 2.5M 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.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Polarity
Indicator Rating

Transfer Latching Break before Make Indicators Negative Common

1 Watts / 30 Volts / 100 mA

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		18	GHz	
Impedance		50		Ohms	
Operating Voltage	24	28	30	Volts	
Actuating Current @ 28 Volts		125		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: Transfer Electromechanical Relay Latching Switch, DC to 18 GHz, up to 240W, 28V Indicators, SMA PE71S6069

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	65	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
 1.53 in [38.86 mm]

 Width/Diameter
 1.27 in [32.26 mm]

 Height
 1.33 in [33.78 mm]

 Weight
 0.183 lbs [83.01 g]

 Package Type
 Connectorized

 Operating Life
 2,500,000 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.G Vibration MIL-STD-202, Method 204D, Cond.C

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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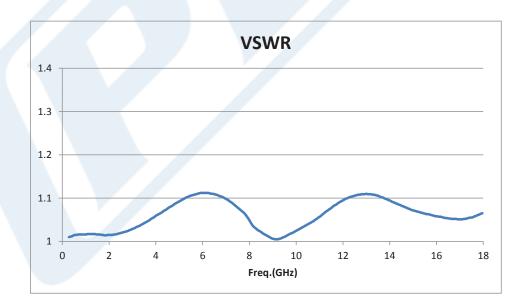


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Typical Performance Data





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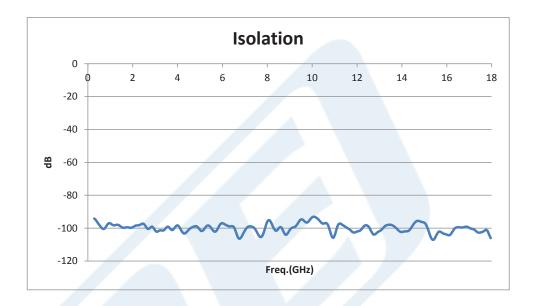
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Transfer Electromechanical Relay Latching Switch, DC to 18 GHz, up to 240W, 28V Indicators, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4%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

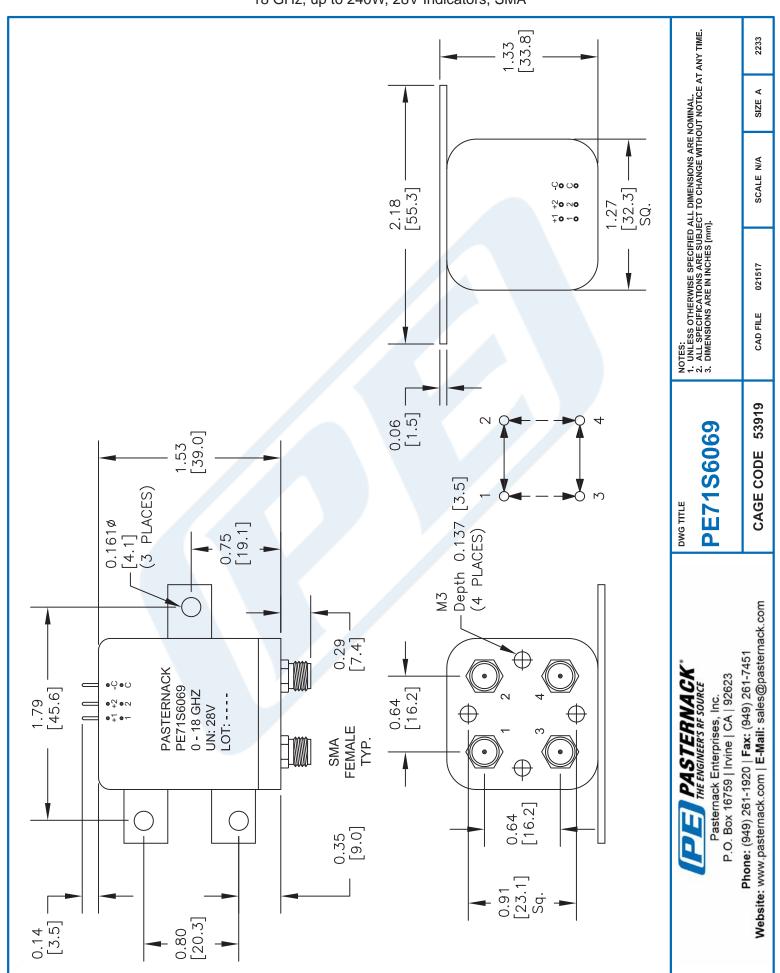
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URL: https://www.pasternack.com/sma-transfer-electromechanical-relay-switch-18-ghz-indicators-pe71s6069-p.aspx

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PE71S6069 CAD Drawing

Transfer Electromechanical Relay Latching Switch, DC to 18 GHz, up to 240W, 28V Indicators, SMA



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