



Electromechanical Relay Switches Technical Data Sheet

PE71S6068

Features

- Transfer Relay Switch
- DC to 18 GHz Frequency Range
- 2.5M Cycle Min Operating Life
- 100 Watt Avg Power Max

Applications

High Performance Relay SwitchMilitary 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 PE71S6068 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, TTL Logic and Self Cut Off 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	Transfer, Reflective
Actuator Type	Latching
Switching Sequence	Break before Make
Actuator Options	Indicators, TTL Logic, Self Cut Off
Polarity	Negative Common
TTL Control	on: 2.2 to 5.5 Volts
	off: 0 to 0.8 Volts
TTL Control Current	0.8 mA at 5.5 Volts
	0.02 mA at 0.8 Volts
Indicator Rating	1 Watts / 30 Volts / 100 mA
Self Cut-Off Time	40 ms < CT < 120 ms

Minimum	Typical	Maximum	Units
DC		18	GHz
	50		Ohms
24	28	30	Volts
	125		mA
		1.5:1	
		0.5	dB
60			dB
		100	Watts
	DC 24	DC 50 24 28 125	DC 18 50 50 24 28 30 125 1.5:1 0.5 60

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, SMA, 100 Watts, 30V Indicator, 28V Control with Indicators, TTL, Self Cut Off PE71S6068

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

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 Width/Diameter Height Weight Package Type

Operating Life Switching Time

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 1.53 in [38.86 mm] 1.27 in [32.26 mm] 1.33 in [33.78 mm]

0.19 lbs [86.18 g] Connectorized Module

2,500,000 Cycles 15 ms Max

SMA Female MIL C 39012 Solder Pins

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

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

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Vibration ESD Sensitivity



ESD Sensitive Material. Transport material in approved ESD bags. Handle in approved ESD Workstation.

MIL-STD-202, Method 204D, Cond.C

Environmental Specification Notes: Environmental specifications are guaranteed but not tested.

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant REACH Compliant

12/17/2014

Plotted and Other Data

Notes:

• Values shown are typical at 25°C.

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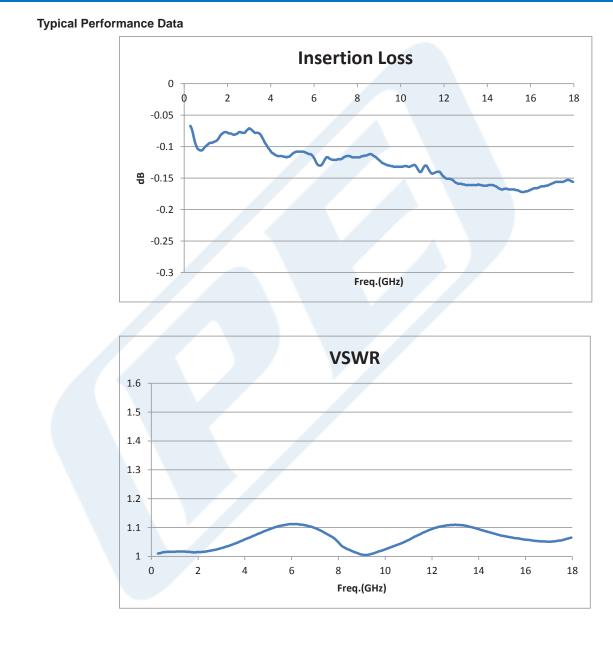
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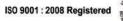
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URL: http://www.pasternack.com/sma-transfer-electromechanical-relay-switch-18-ghz-indicators-pe71s6068-p.aspx

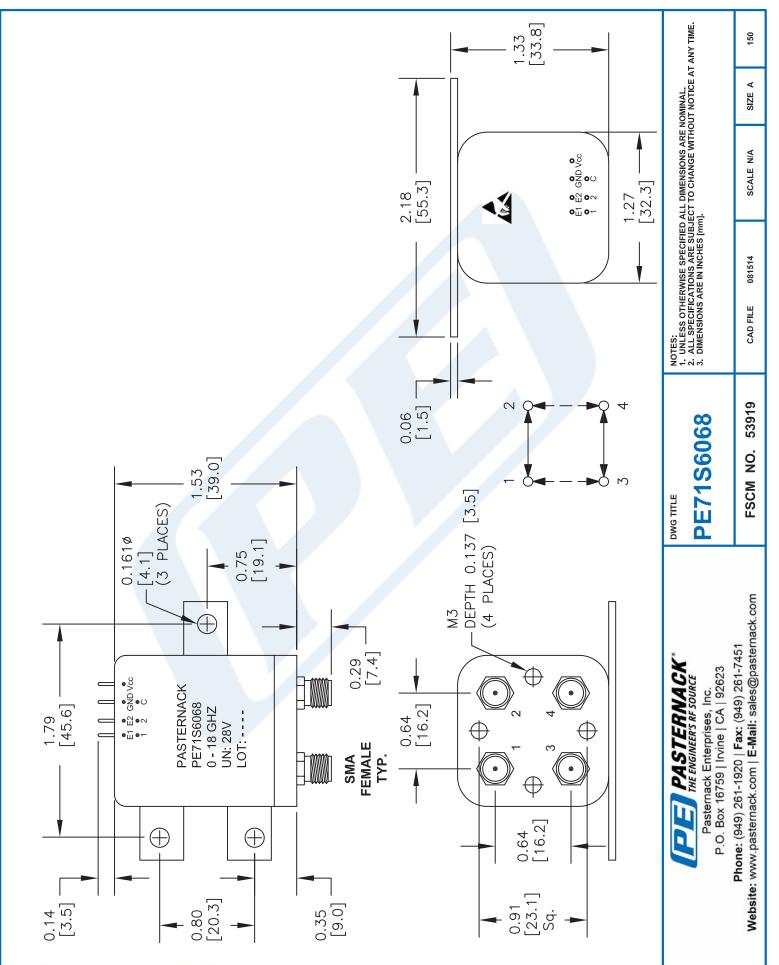
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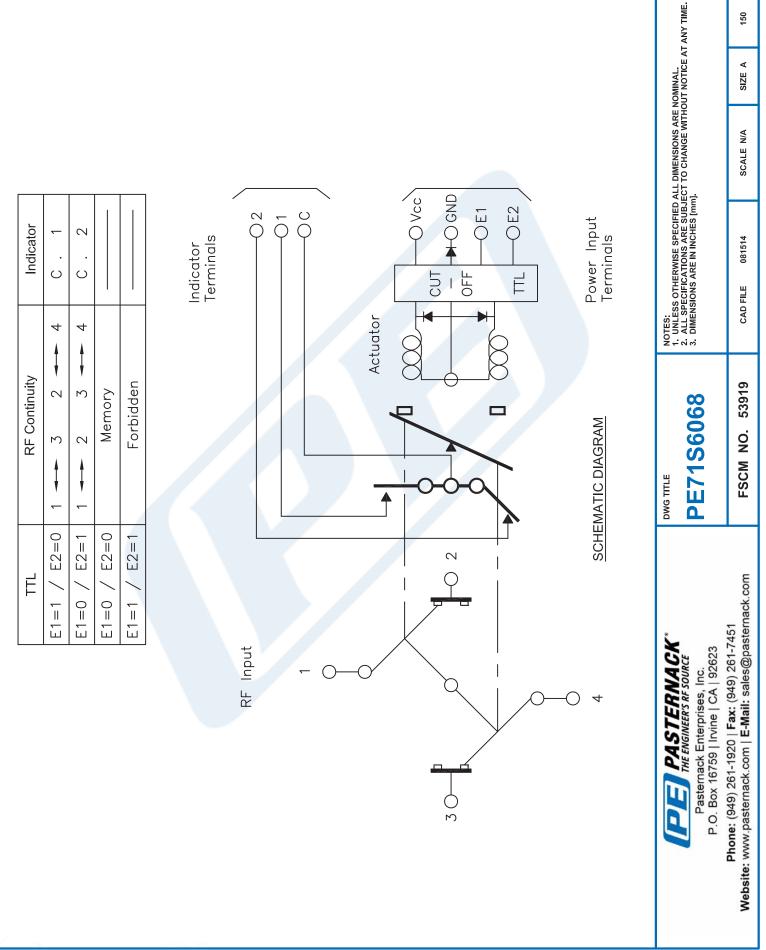
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PE71S6068 CAD Drawing

Transfer Electromechanical Relay Latching Switch DC to 18 GHz, SMA, 100 Watts, 30V Indicator, 28V Control with Indicators, TTL, Self Cut Off







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