



Electromechanical Relay Switches Technical Data Sheet

PE71S6392

Features

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- · Failsafe Actuator

- -25 to +70°C Operating Temperature
- · Insertion Loss as low as 0.15 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- Solder Pins DC Control
- · Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request

Applications

- High Performance Relay Switch
- Military Communications
- · Communications Systems
- Test & Measurement

Description

The PE71S6392 is a (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Failsafe actuator and is rated for 2M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 80 dB typical. The Failsafe actuator has a +12 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and a Solder Pins DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type **Actuator Type**

Switching Sequence

SPDT Failsafe

Break before Make

Minimum	Typical	Maximum	Units	
DC	<u> </u>	18	GHz	
	50		Ohms	
11	12	13	Volts	
-	200		mA	
	1.2:1	1.4:1		
	0.15	0.35	dB	
65	80		dB	
		60	Watts	
		20	ms Max	
	DC 11	DC 50 11 12 200 1.2:1 0.15	DC 18 50 11 12 13 200 1.2:1 1.4:1 0.15 0.35 65 80 60	

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 Failsafe Switch, DC to 18 GHz, up to 90W, 12V, SMA PE71S6392

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

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12	12 to 18			GHz
1.2:1	1.3:1	1.4:1	<u> </u>		
0.15	0.25	0.4			dB
80	75	65			dB
90	75	60			Watts
	DC to 6 1.2:1 0.15 80	DC to 6 6 to 12 1.2:1 1.3:1 0.15 0.25 80 75	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.15 0.25 0.4 80 75 65	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.15 0.25 0.4 80 75 65	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.15 0.25 0.4 80 75 65

Mechanical Specifications

Size

Body Material and Plating
Package Type
Aluminum
Connectorized
Operating Life
2,000,000 Cycles

Connectors

RF Connector Type SMA Female
RF Connector Contact Material and Plating Beryllium Copper, Gold

RF Connector Body Material and Plating

Aluminum, Nickel
Control Connector

Solder Pin

Environmental Specifications

Temperature

Operating Range -25 to +70 deg C Storage Range -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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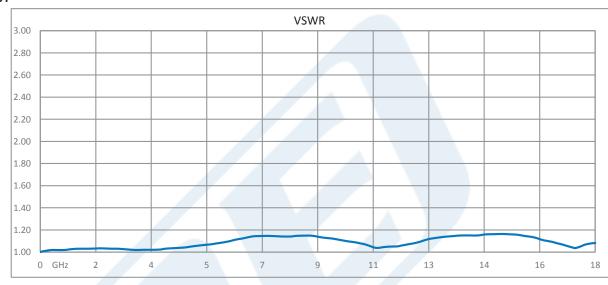


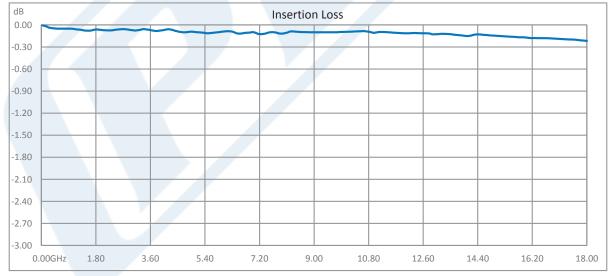
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Typical Performance Data





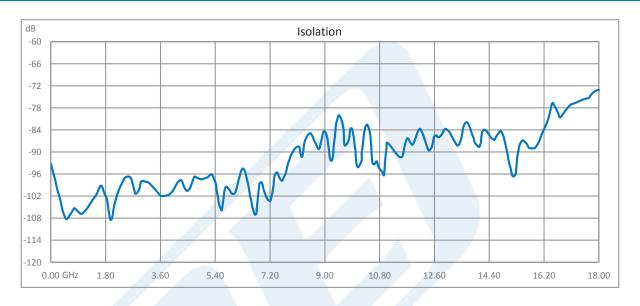
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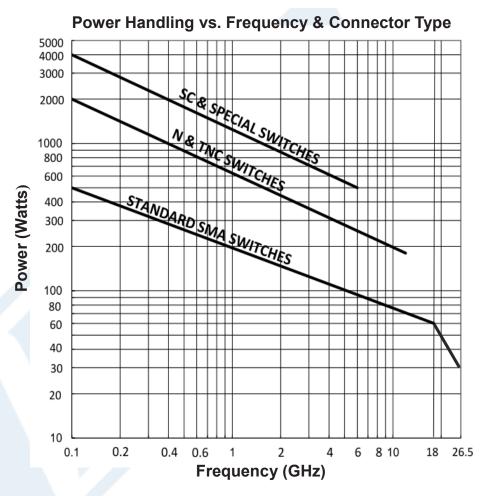
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Environmental and Test Conditions:

- Ambient temperature of 25°C or less
- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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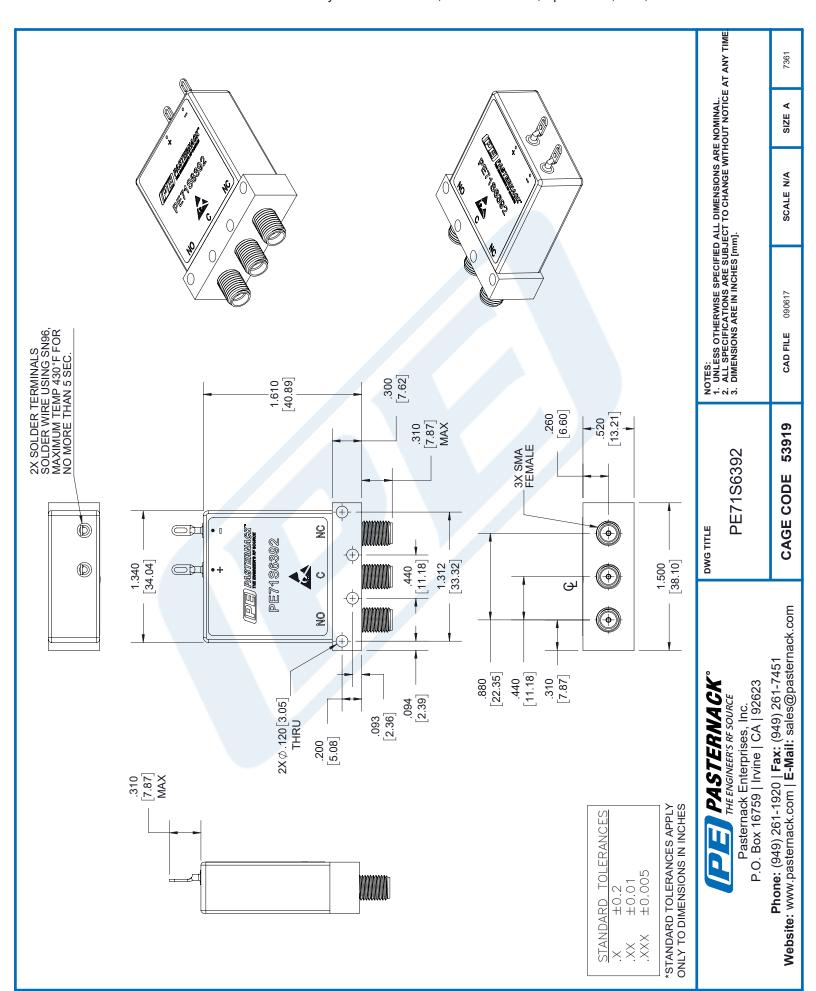
SPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 12V, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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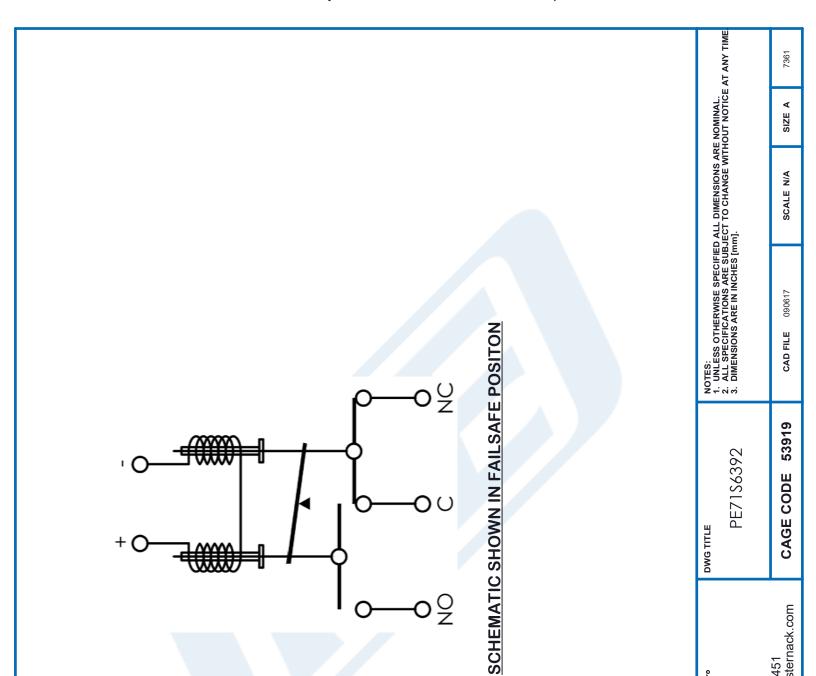
URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-18-ghz-60w-12v-sma-pe71s6392-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE71S6392 CAD Drawing
SPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 12V, SMA



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*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

STANDARD TOLERANCES

±0.2 ±0.01 ±0.005

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E PASTERNACK THE ENGINEER'S RF SOURCE Pasternack Enterprises, Inc.

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