



## **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 Latching 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 Latching

Break before Make

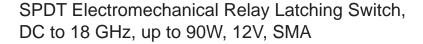
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Current @ 12 Volts		200		mA
VSWR		1.2:1	1.4:1	
Insertion Loss		0.15	0.35	dB
Isolation	65	80		dB
Input Power (CW)			60	Watts
Switching Time			20	ms Max

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, 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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## **Electromechanical Relay Switches Technical Data**

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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

Package Type Connectorized

Operating Life 2,000,000 Cycles

Connectors

RF Connector Type SMA Female 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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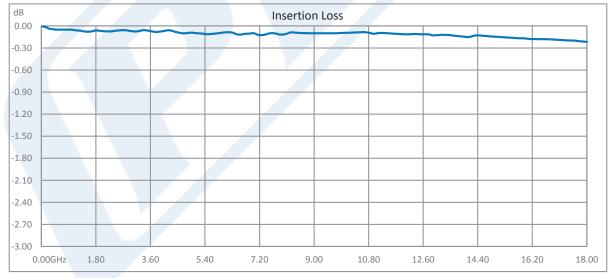


## **Electromechanical Relay Switches Technical Data**

## PE71S6392

#### **Typical Performance Data**





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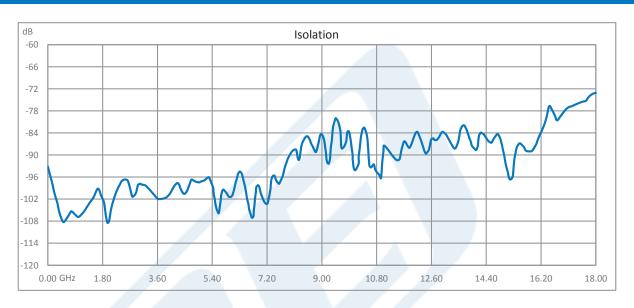






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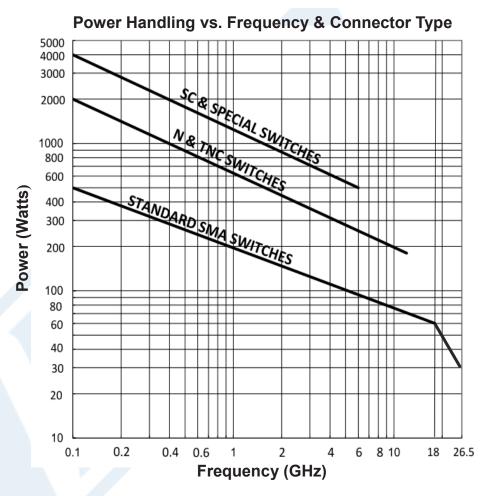
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## **Electromechanical Relay Switches Technical Data**

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#### **Environmental and Test Conditions:**

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

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SPDT Electromechanical Relay Latching 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.

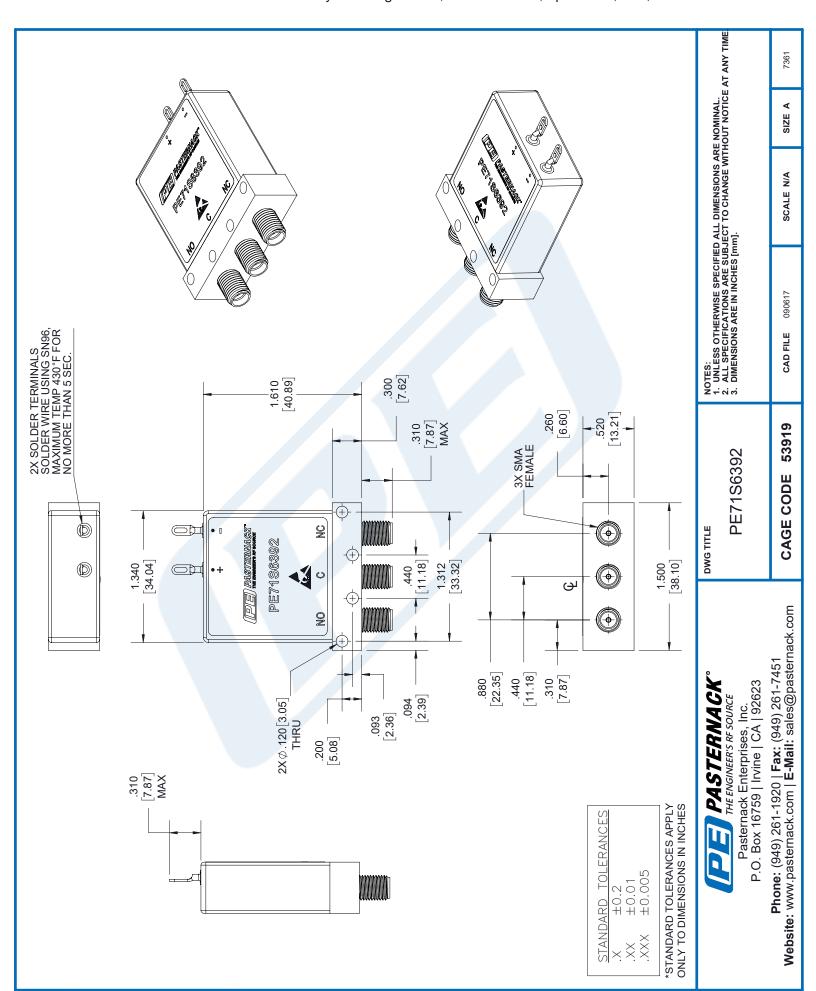
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URL: https://www.pasternack.com/spdt-electromechanical-relay-latching-switch-18-ghz-60w-12v-sma-pe71s6392-p.aspx

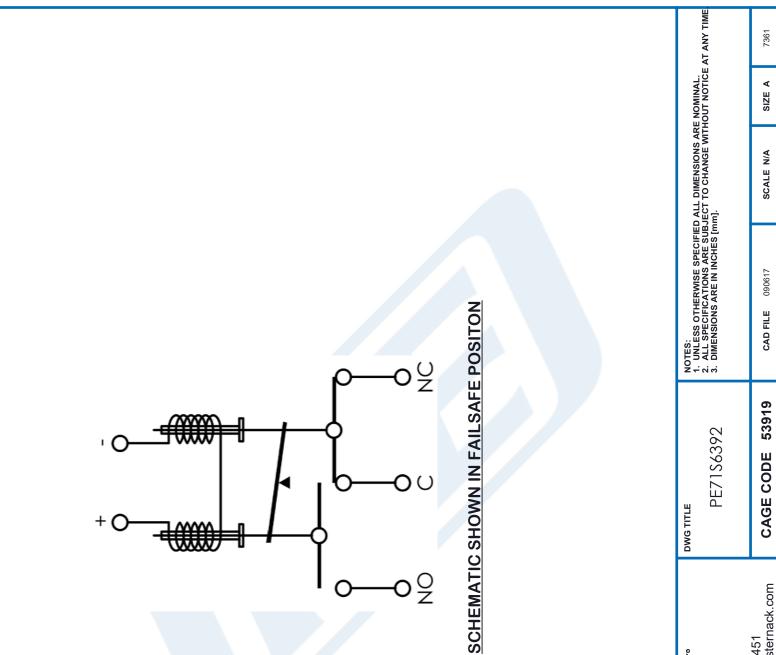
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PE71S6392 CAD Drawing
SPDT Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 12V, SMA



F PASTERNACK THE ENGINEER'S RF SOURCE 1

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

STANDARD TOLERANCES

±0.2 ±0.01 ±0.005

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