



### **Electromechanical Relay Switches Technical Data Sheet**

PE71S6376

### **Features**

- Single Pole Six Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- · Latching Actuator
- Internally Terminated
- 90 Watt average Power
- · Communications Systems
- Test & Measurement
- **Applications** 
  - High Performance Relay Switch
  - Military Communications

### Description

The PE71S6376 is a Single Pole Six Throw (SP6T) 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 5M 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 Latching actuator has 50 Ohm Terminations and 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 15 Pin D-Sub Connector for 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 SP6T, Terminated Latching Break before Make

-25 to +70°C Operating Temperature

VSWR as low as 1.2:1 max

SMA Female RF connectors

Insertion Loss as low as 0.15 dB Max

15 Pin D-Sub Connector for DC Control

· Hot Switching Capability - Consult Factory

· S-Parameter Data available upon request

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Termination 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	0.4	dB
Isolation	80	80		dB
Input Power (CW)			60	Watts
Termination Input Power (CW)			5	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: SP6T Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 90W, 12V, SMA PE71S6376

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### **Performance by Frequency**

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Description	F1	F2	F3	F4	F5	Units	
Frequency Range	DC to 6	6 to 12	12 to 18			GHz	
VSWR, Max	1.2:1	1.3:1	1.4:1				
Insertion Loss, Max	0.15	0.25	0.4			dB	
Isolation, Min	80	80	80			dB	
Input Power, Typ (CW)	90	75	60			Watts	

### **Mechanical Specifications**

Size

Package Type Connectorized

Operating Life 5,000,000 Cycles

Connectors

RF Connector Type SMA Female Control Connector 15 Pin D-Sub

### **Environmental Specifications**

Temperature

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

Shock

Vibration ing
WIL-STD-202 Method 214, Cond. D 10G RMS Non
Operating

MIL-STD-202 Method 213, Cond. D 500G Non Operat-

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

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ISO 9001 : 2008 Registered



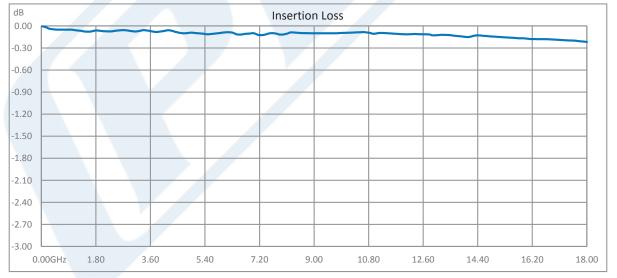


### **Electromechanical Relay Switches Technical Data**

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#### **Typical Performance Data**





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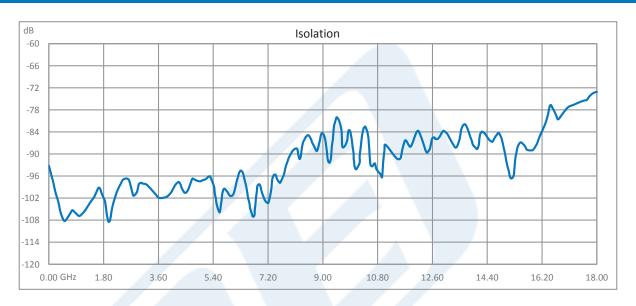






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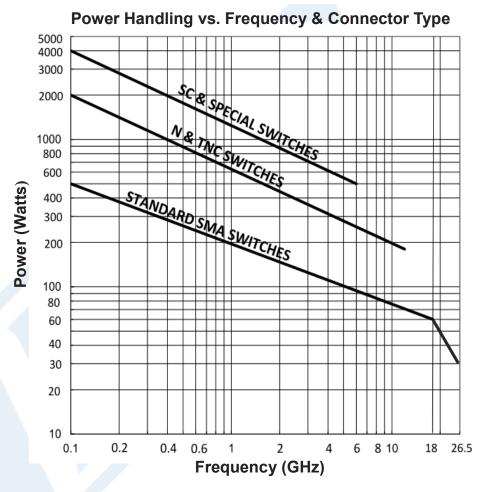






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#### **Environmental and Test Conditions:**

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

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SP6T Electromechanical Relay Latching Switch, Terminated, 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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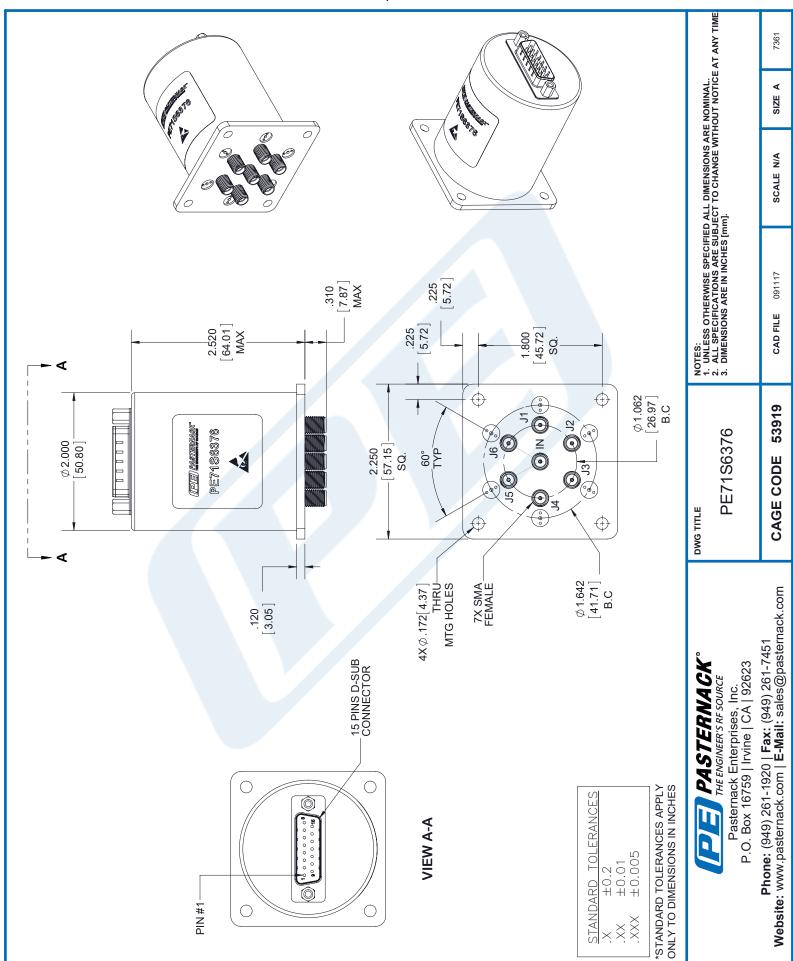
URL: https://www.pasternack.com/sp6t-electromechanical-relay-latching-switch-terminated-18-ghz-60w-12v-smape71s6376-p.aspx

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.



# PE71S6376 CAD Drawing

SP6T Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 90W, 12V, SMA



# PE71S6376 CAD Drawing

SP6T Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 90W, 12V, SMA

