



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

### PE71S6370

### **Features**

- Single Pole Four Throw
- DC to 26.5 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Normally Open Actuator
- Internally Terminated

### Applications

- High Performance Relay Switch
- Military Communications

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- 15 Pin D-Sub Connector for DC Control
- Hot Switching Capability Consult Factory
- S-Parameter Data available upon request
- Communications Systems
- Test & Measurement

#### Description

The PE71S6370 is a Single Pole Four Throw (SP4T) electromechanical relay switch that operates across a wide frequency range of DC to 26.5 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Normally Open 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 Normally Open 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**

Description	Minimum	Typical	Maxim
Switch Type Actuator Type Switching Sequence		SP4T, Termi Normally Op Break before	en

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Termination Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Current @ 12 Volts		200		mA
VSWR		1.2:1	1.7:1	
Insertion Loss		0.15	0.7	dB
Isolation	70	80		dB
Input Power (CW)			50	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: SP4T Electromechanical Relay Normally Open Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA PE71S6370

ISO 9001 : 2008 Registered

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# **Electromechanical Relay Switches Technical Data**

PE71S6370

Description	F1	F2	F3	F4	F5	Units	
Frequency Range	DC to 6	6 to 12	12 to 18	18 to 26.5		GHz	
VSWR, Max	1.2:1	1.3:1	1.4:1	1.7:1			
Insertion Loss, Max	0.15	0.25	0.4	0.7		dB	
Isolation, Min	80	80	80	70		dB	
Input Power, Typ (CW)	90	75	60	50		Watts	
chanical Specification Size	ns						
Package Type			(	Connectorized			
Operating Life			:	2,000,000 Cycles	5		
Connectors RF Connector Type Control Connector				SMA Female 15 Pin D-Sub			
vironmental Specifica Temperature Operating Range Storage Range	ntions			25 to +70 deg C 55 to +100 deg 0			
Shock Vibration				MIL-STD-202 Method 213, Cond. D 500G Non Op ing MIL-STD-202 Method 214, Cond. D 10G RMS Nor Operating			
mpliance Certification	<b>1s</b> (see produ	ct page for cu					
tted and Other Data Notes:							

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VSWR 3.00 2.80 2.60 2.40 2.20 2.00 1.80 1.60 1.40 1.20 1.00 0.0 GHz 15.9 23.9 2.7 5.3 8.0 10.6 13.3 18.6 21.2 26.5 dB Insertion Loss 0.00 -0.30 -0.60 -0.90 1.20 -1.50 1.80 -2.10 -2.40 -2.70

Typical Performance Data

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13.3

15.9

18.6

21.2

23.9

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3.00

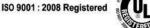
0.0 GHz

2.7

5.3

8.0

10.6



26.5

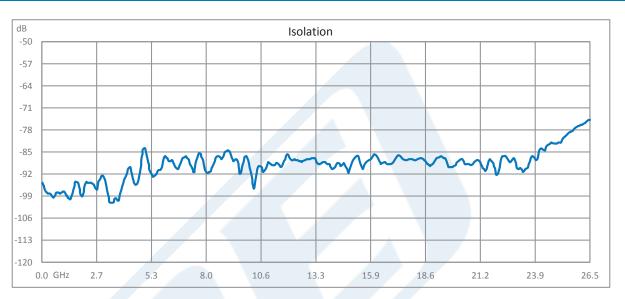




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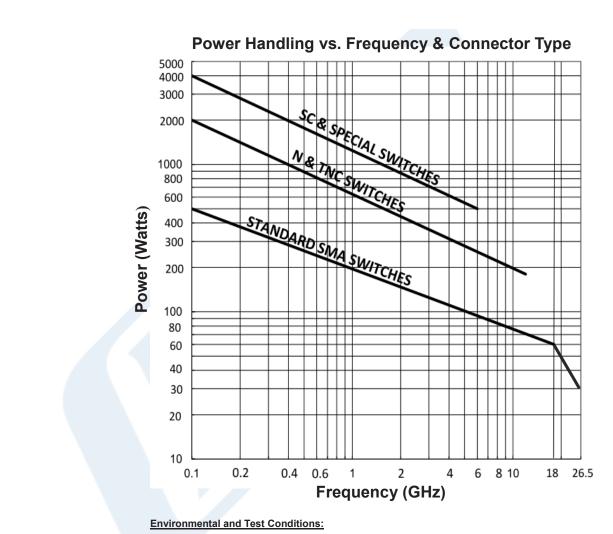






### **Electromechanical Relay Switches Technical Data**

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

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5





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SP4T Electromechanical Relay Normally Open Switch, Terminated, DC to 26.5 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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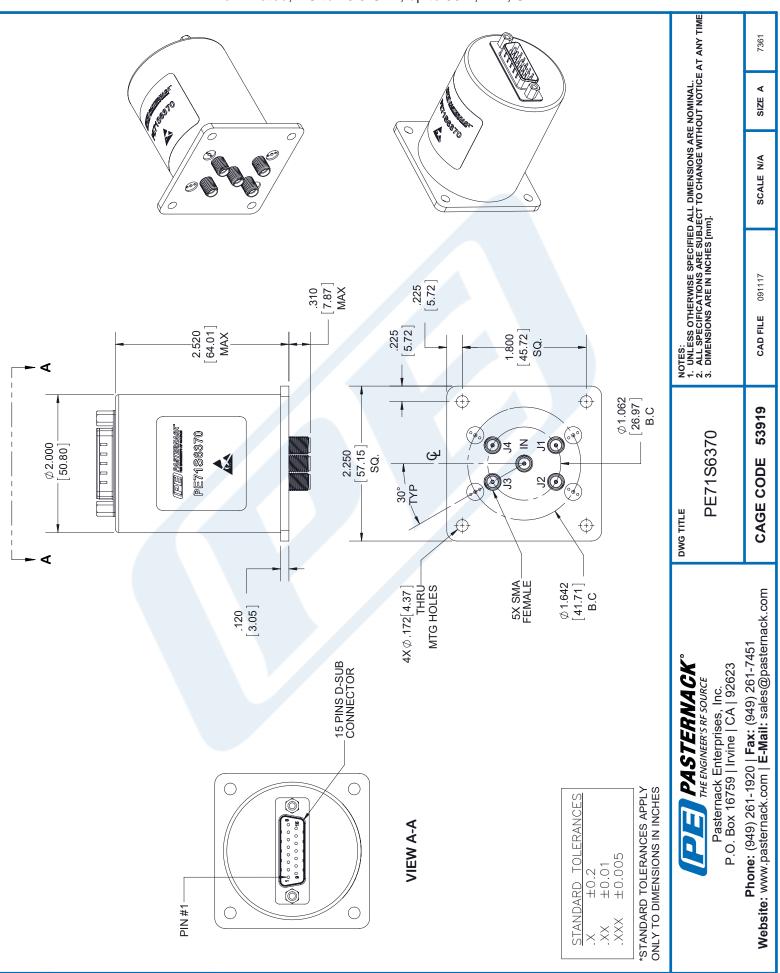
URL: https://www.pasternack.com/sp4t-electromechanical-relay-normally-open-switch-terminated-26.5-ghz-50w-12v-smape71s6370-p.aspx

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PE71S6370 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA



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