

SP6T Electromechanical Relay Normally Open Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA



## Electromechanical Relay Switches Technical Data Sheet

## PE71S6382

#### **Features**

- Single Pole Six 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 PE71S6382 is a Single Pole Six Throw (SP6T) 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**

Switching Sequence	Break before Make
Switch Type Actuator Type	SP6T, Terminated Normally Open

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: SP6T Electromechanical Relay Normally Open Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA PE71S6382

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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						
Connectors RF Connector Type Control Connector	SMA Female 15 Pin D-Sub						
<b>Tironmental Specifica</b> <b>Temperature</b> Operating Range Storage Range	tions			25 to +70 deg C 55 to +100 deg			
Shock Vibration	MIL-STD-202 Method 213, Cond. D 500G Non Op ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating						
npliance Certificatior	<b>1s</b> (see produc	ct page for cu	rrent docume	ent)			
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 3.00

Typical Performance Data

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13.3

15.9

18.6

21.2

23.9

26.5

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0.0 GHz

2.7

5.3

8.0

10.6

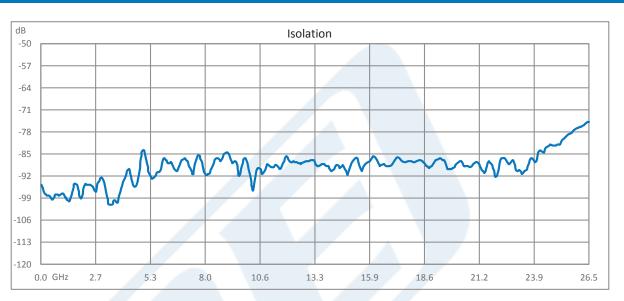




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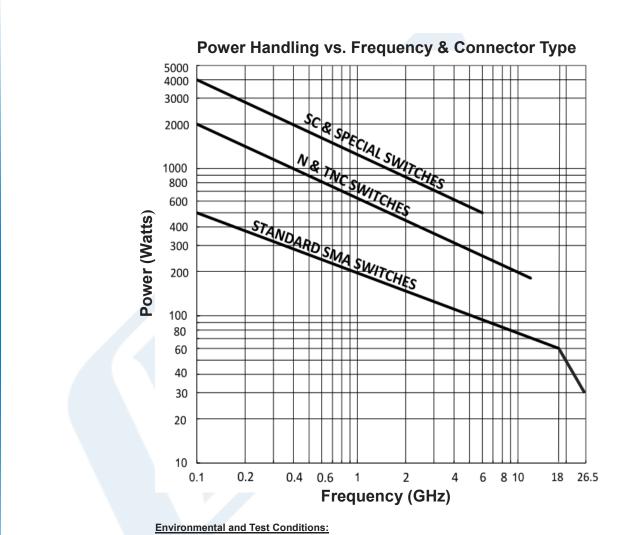


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- Ambient temperature of 25℃ or less
  - Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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### Electromechanical Relay Switches Technical Data

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SP6T 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.

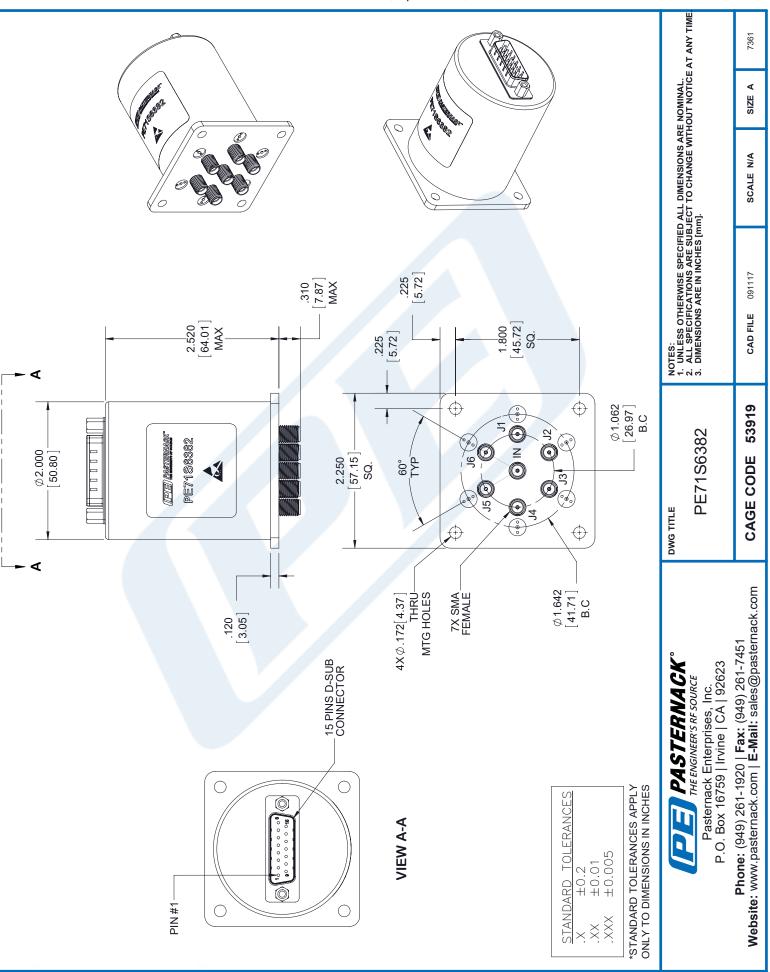
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#### URL: https://www.pasternack.com/sp6t-electromechanical-relay-normally-open-switch-terminated-26.5-ghz-50w-12v-smape71s6382-p.aspx

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