



Electromechanical Relay Switches Technical Data Sheet

PE71S6368

Features

- Single Pole Four 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
- Normally Open Actuator
- Internally Terminated

Applications

- High Performance Relay Switch
- Military Communications

- -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
- 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 PE71S6368 is a Single Pole Four Throw (SP4T) 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 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

Switch Type	SP4T, Terminated
Actuator Type	Normally Open
Switching Sequence	Break before Make

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: SP4T Electromechanical Relay Normally Open Switch, Terminated, DC to 18 GHz, up to 90W, 12V, SMA PE71S6368

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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	
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			
vironmental Specifica Temperature Operating Range Storage Range	itions			-25 to +70 deg 0 -55 to +100 deg			
Shock				MIL-STD-202 Method 213, Cond. D 500G Non Ope			
Vibration	ing MIL-STD-202 Method 214, Cond. D 10G RMS No Operating						
npliance Certification	1s (see produc	ct page for cu	rrent docur	nent)			
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 GHz 2 5 7 9 13 4 11 14 16 18 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 0.00GHz 1.80 3.60 5.40 7.20 9.00 10.80 12.60 14.40 16.20 18.00

Typical Performance Data

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dB

-60 -66

0.00 GHz

1.80

3.60

5.40

7.20



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Isolation

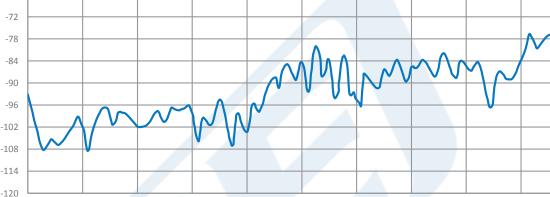
10.80

12.60

14.40

16.20

18.00



9.00

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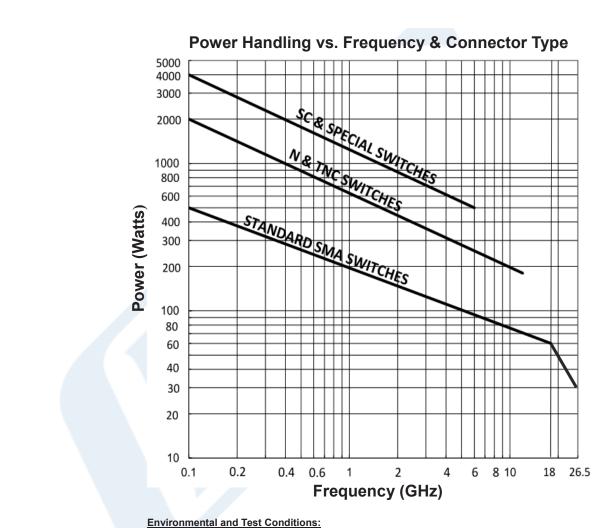
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- Ambient temperature of 25 $^\circ\!{\mathbb C}$ or less
- Altitude: Sea LevelLoad VSWR: 1.20:1 max.
- Cold Switching
- Cold Switching

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SP4T Electromechanical Relay Normally Open 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.

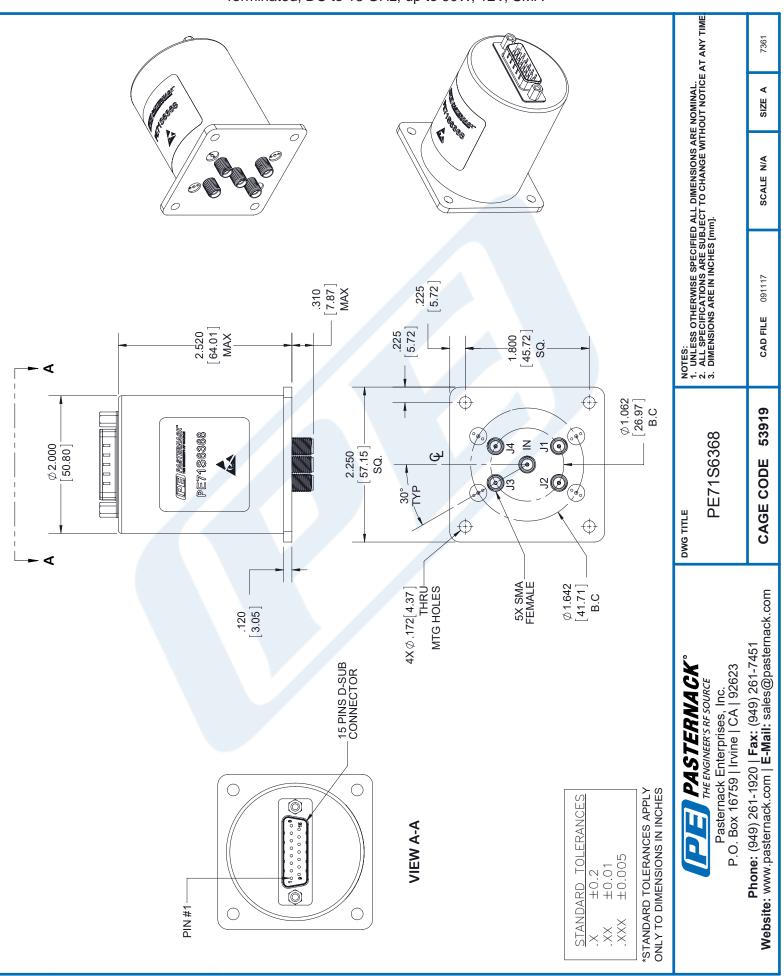
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URL: https://www.pasternack.com/sp4t-electromechanical-relay-normally-open-switch-terminated-18-ghz-60w-12v-smape71s6368-p.aspx

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Terminated, DC to 18 GHz, up to 90W, 12V, SMA

