

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



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	F 3	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 Specificatio Size	ns					
Package Type				Connectorized		
Operating Life				2,000,000 Cycles		
Connectors RF Connector Type Control Connector				SMA Female 15 Pin D-Sub		
rironmental Specifica Temperature Operating Range Storage Range	utions			-25 to +70 deg C -55 to +100 deg C)	
Shock	MIL-STD-202 Method 213, Cond. D 500G Non ing				nd. D 500G Non Op	
Vibration				0	thod 214, Co	nd. D 10G RMS No
npliance Certificatior	s (see produ	ot page for cu	rrent docur	ment)		

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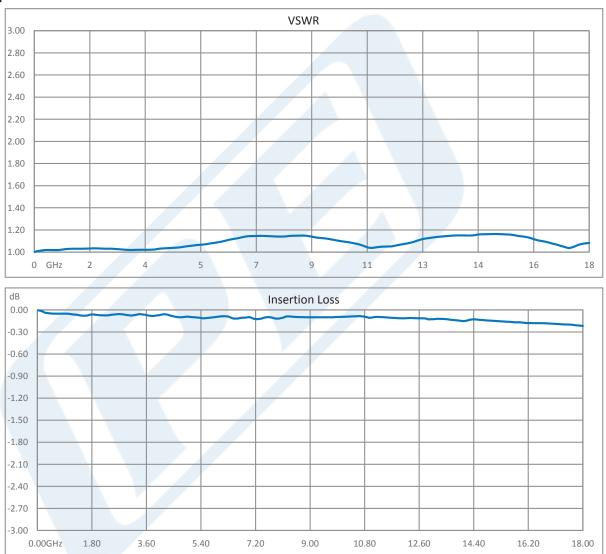


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Typical Performance Data

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dB Isolation -60 -66 -72 -78 -84 -90 -96 102 -108 114 120 0.00 GHz 1.80 3.60 5.40 7.20 9.00 10.80 12.60 14.40 16.20 18.00

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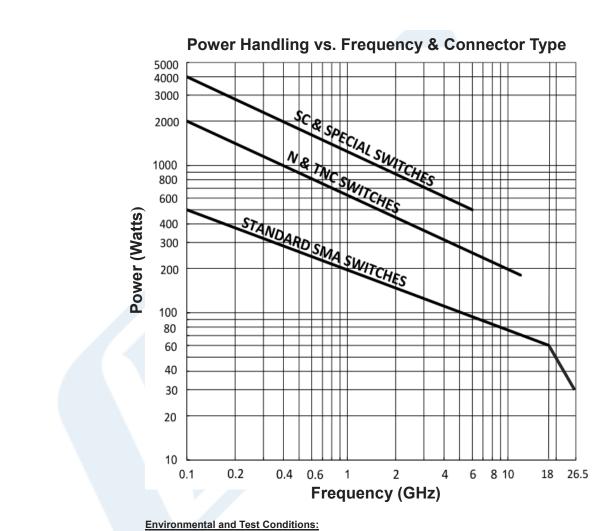


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- Ambient temperature of 25℃ or less
 - Altitude: Sea Level
 - Load VSWR: 1.20:1 max.
 - Cold Switching

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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.

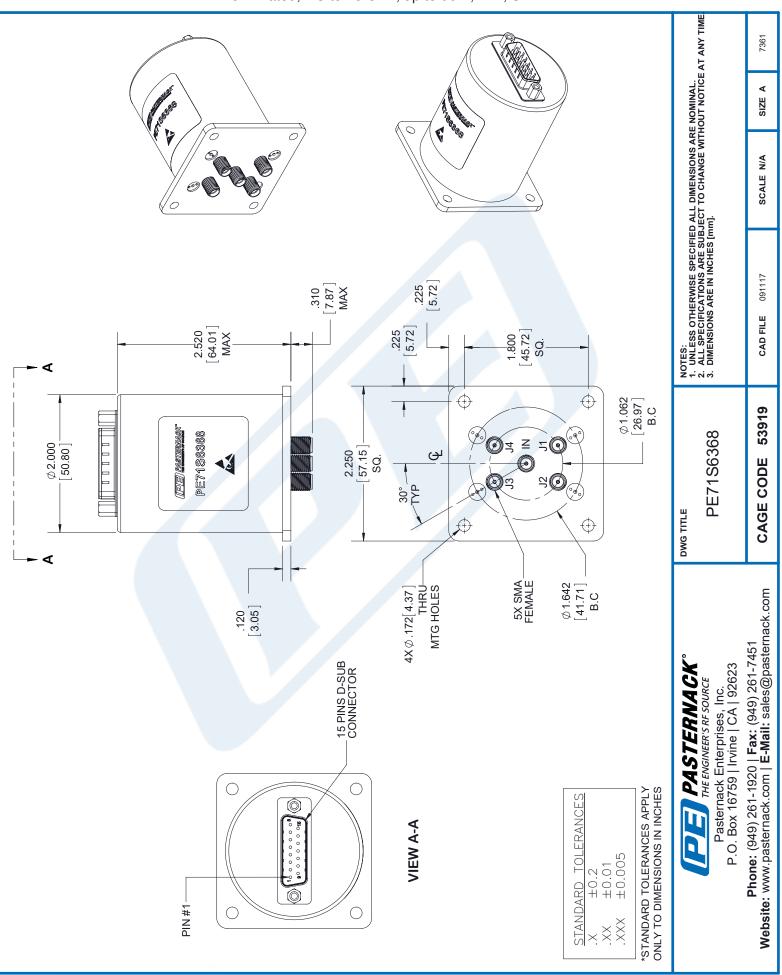
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URL: https://www.pasternack.com/sp4t-electromechanical-relay-normally-open-switch-terminated-18-ghz-60w-12v-smape71s6368-p.aspx

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PE71S6368 CAD Drawing SP4T Electromechanical Relay Normally Open Switch,

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