



Electromechanical Relay Switches Technical Data Sheet

PE71S6369

Features

- Single Pole Four Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +28 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 PE71S6369 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 +28 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 Ma	Switch Type Actuator Type Switching Sequence	SP4T, Terminated Normally Open Break before Make
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Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Termination Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Current @ 28 Volts		90		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, 28V, SMA PE71S6369

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451





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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	
hanical Specificatio	ns						
Size							
Package Type				Connectorized			
Operating Life				2,000,000 Cycles			
Connectors RF Connector Type Control Connector				SMA Female 15 Pin D-Sub			
ironmental Specifica Temperature Operating Range Storage Range	ations			-25 to +70 deg -55 to +100 deg			
Shock Vibration				MIL-STD-202 Method 213, Cond. D 500G Non Oping MIL-STD-202 Method 214, Cond. D 10G RMS Nor Operating			
npliance Certification	ns (see produ	ct page for cu	rrent docur	ment)			
ted 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 4 11 13 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 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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- Ambient temperature of 25℃ or less
 - Altitude: Sea Level
 - Load VSWR: 1.20:1 max.
 - Cold Switching

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URL: https://www.pasternack.com/sp4t-electromechanical-relay-normally-open-switch-terminated-18-ghz-60w-28v-smape71s6369-p.aspx

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SP4T Electromechanical Relay Normally Open Switch, Terminated, DC to 18 GHz, up to 90W, 28V, SMA



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