

SP4T Electromechanical Relay Normally Open Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, SMA



Electromechanical Relay Switches Technical Data Sheet

PE71S6371

Features

- Single Pole Four Throw
- DC to 26.5 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 0.2 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 PE71S6371 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 +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

	Description	Minimum	Typical	Maximu
A	witch Type ctuator Type witching 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	26	28	30	Volts
Actuating Current @ 28 Volts		90		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, 28V, SMA PE71S6371

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	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			C	connectorized			
Operating Life			2	2,000,000 Cycles			
Connectors RF Connector Type Control Connector				SMA Female 15 Pin D-Sub			
vironmental Specifications Temperature Operating Range Storage Range				-25 to +70 deg C -55 to +100 deg C			
Shock Vibration			ir N	MIL-STD-202 Method 213, Cond. D 500G Non Op ing MIL-STD-202 Method 214, Cond. D 10G RMS Nor Operating			
npliance Certificatior	1s (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 5.3 0.0 GHz 2.7 8.0 10.6 13.3 15.9 18.6 21.2 23.9 26.5

Typical Performance Data

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dB Isolation -50 -57 -64 -71 -78 -85 -92 -99 -106 113 120 0.0 GHz 2.7 5.3 8.0 10.6 13.3 15.9 18.6 21.2 23.9 26.5

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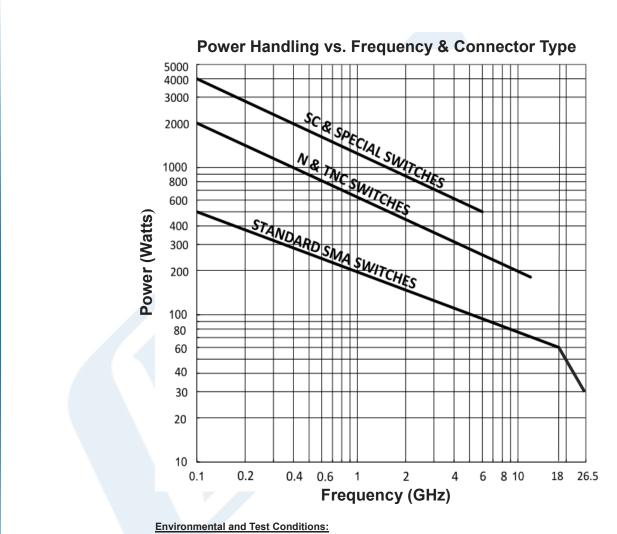


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- Ambient temperature of 25°C or less
 - Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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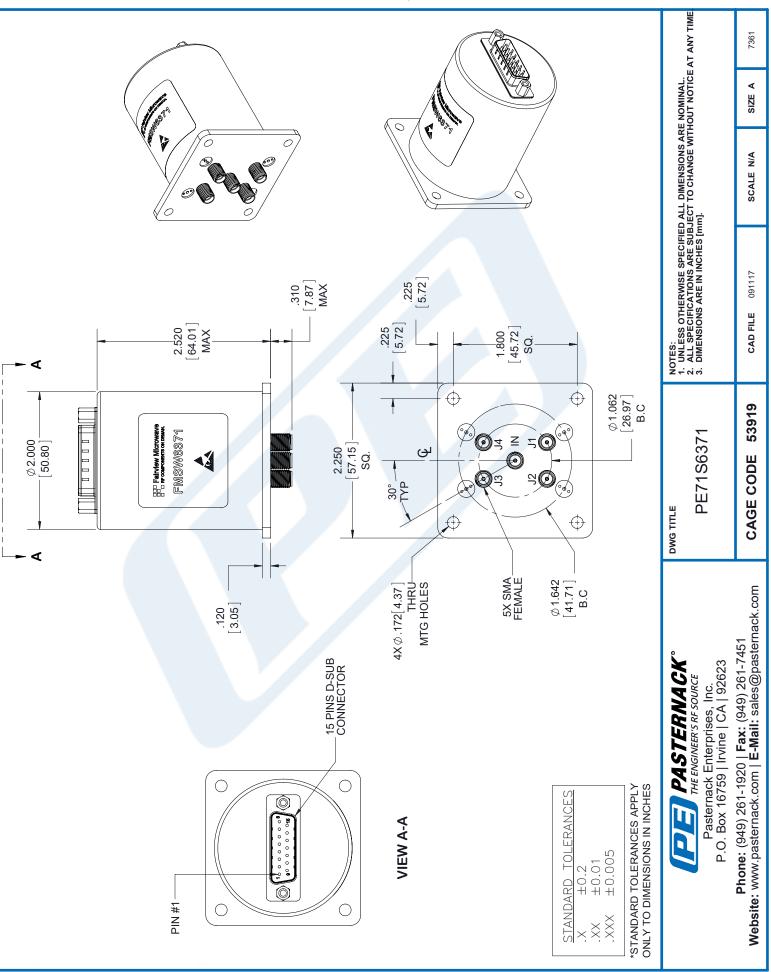
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URL: https://www.pasternack.com/sp4t-electromechanical-relay-normally-open-switch-terminated-26.5-ghz-50w-28v-smape71s6371-p.aspx

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