

SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA



Electromechanical Relay Switches Technical Data Sheet

PE71S6373

Features

- Single Pole Six 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

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
- 9 Pin D-Sub Connector for DC Control
- Hot Switching Capability Consult Factory
- S-Parameter Data available upon request
- Communications Systems
- Test & Measurement

Description

The PE71S6373 is a Single Pole Six Throw (SP6T) 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 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 9 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 Actuator Type Switching Sequence	SP6T Normally Open Break before Make				
Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		18	GHz	
Impedance		50		Ohms	
Operating Voltage	11	12	13	Volts	
Actuating Set 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	
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, DC to 18 GHz, up to 90W, 12V, SMA PE71S6373

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

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Electromechanical Relay Switches Technical Data

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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
			_			
hanical Specification Size	าร					
Body Material and Platin Package Type	g			luminum onnectorized		
Operating Life			2,	000,000 Cycl	es	
Connectors RF Connector Type RF Connector Contact M RF Connector Body Mat Control Connector	erial and Plati		Be	MA Female eryllium Copp luminum, Nicl 5-Pin D-Subm	kel	
ironmental Specifica Temperature Operating Range Storage Range	tions			5 to +70 deg 5 to +100 deg		
Shock Vibration			in M	g		nd. D 500G Non Of nd. D 10G RMS No
npliance Certification	is (see produ	ct page for cu	irrent docume	nt)		
ted and Other Data Notes:						

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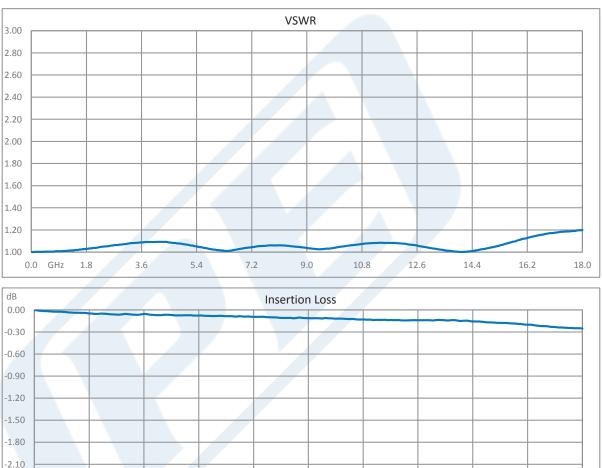




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Typical Performance Data

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9.0

10.8

12.6

14.4

16.2

18.0

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-2.40 -2.70 -3.00

0.0 GHz

1.8

3.6

5.4

7.2





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dB Isolation -50 -57 -64 -71 -78 -85 -92 -99 -106 113 120 0.0 GHz 1.8 3.6 5.4 7.2 9.0 10.8 12.6 14.4 16.2 18.0

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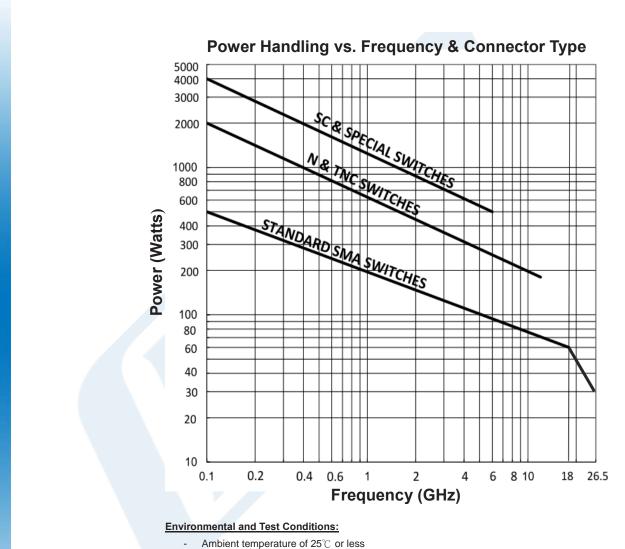


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- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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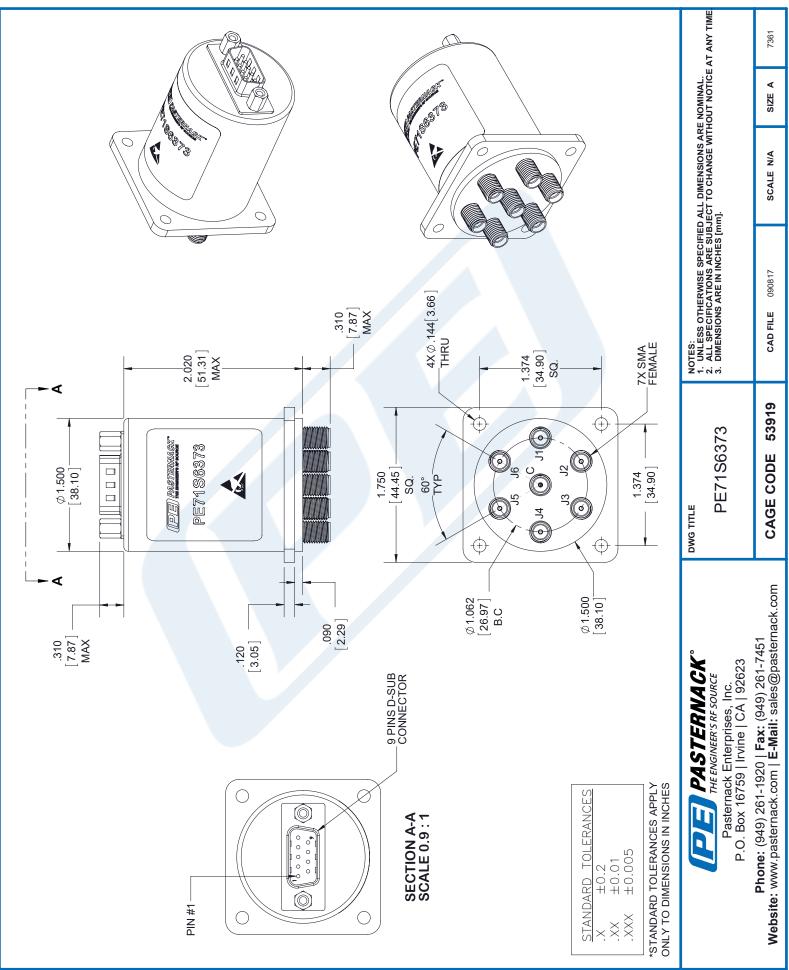
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PE71S6373 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch,

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