

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

ISO 9001 : 2008 Registered



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



Electromechanical Relay Switches Technical Data

PE71S6373

Description	F1	F2	F 3	F 4	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 Specificatior Size	IS							
Body Material and Plating Package Type	g			Aluminum Connectorized				
Operating Life				2,000,000 Cyc	les			
Connectors RF Connector Type RF Connector Contact Material and Plating RF Connector Body Material and Plating Control Connector				SMA Female Beryllium Copper, Gold Aluminum, Nickel 15-Pin D-Subminiatur				
rironmental Specifica Temperature Operating Range Storage Range	tions			-25 to +70 deg -55 to +100 de				
Shock Vibration				MIL-STD-202 Method 213, Cond. D 500G Non Ope ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating				
npliance Certification	s (see produc	ct page for cu	rrent docum	ient)				
tted and Other Data								

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

ISO 9001 : 2008 Registered

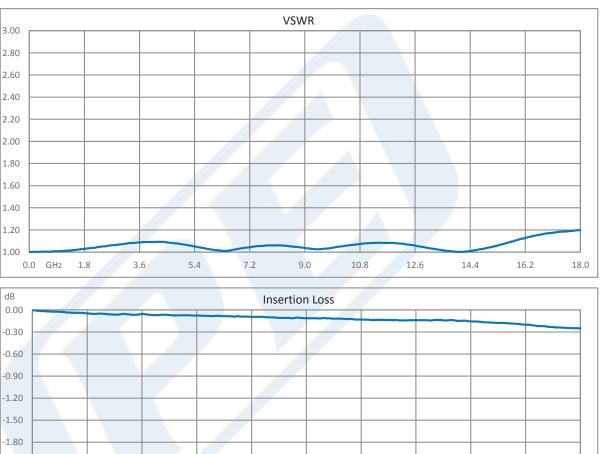


P

PE71S6373

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

Electromechanical Relay Switches Technical Data



Typical Performance Data

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

9.0

10.8

12.6

14.4

16.2

ISO 9001 : 2008 Registered

18.0

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

-2.10 -2.40 -2.70 -3.00

0.0 GHz

1.8

3.6

5.4

7.2





PE71S6373

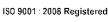
SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA

Electromechanical Relay Switches Technical Data

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

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



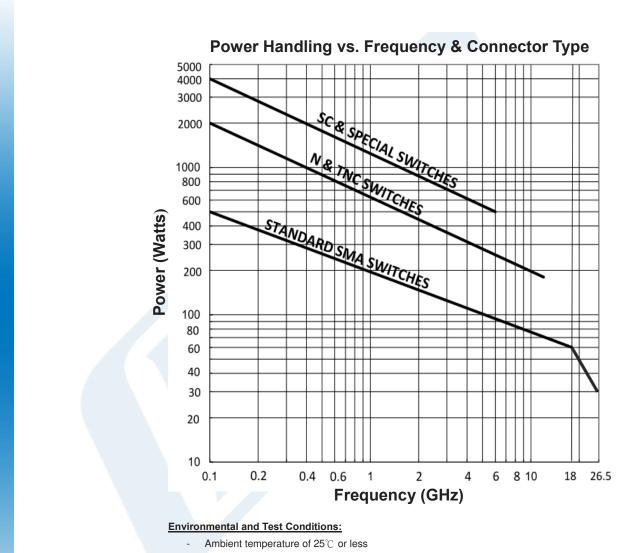


P. CK

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

Electromechanical Relay Switches Technical Data

PE71S6373

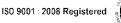


- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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





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



Electromechanical Relay Switches Technical Data

PE71S6373

SP6T Electromechanical Relay Normally Open Switch, 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.

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

URL: https://www.pasternack.com/sp6t-electromechanical-relay-normally-open-switch-18-ghz-60w-12v-sma-pe71s6373-p. aspx

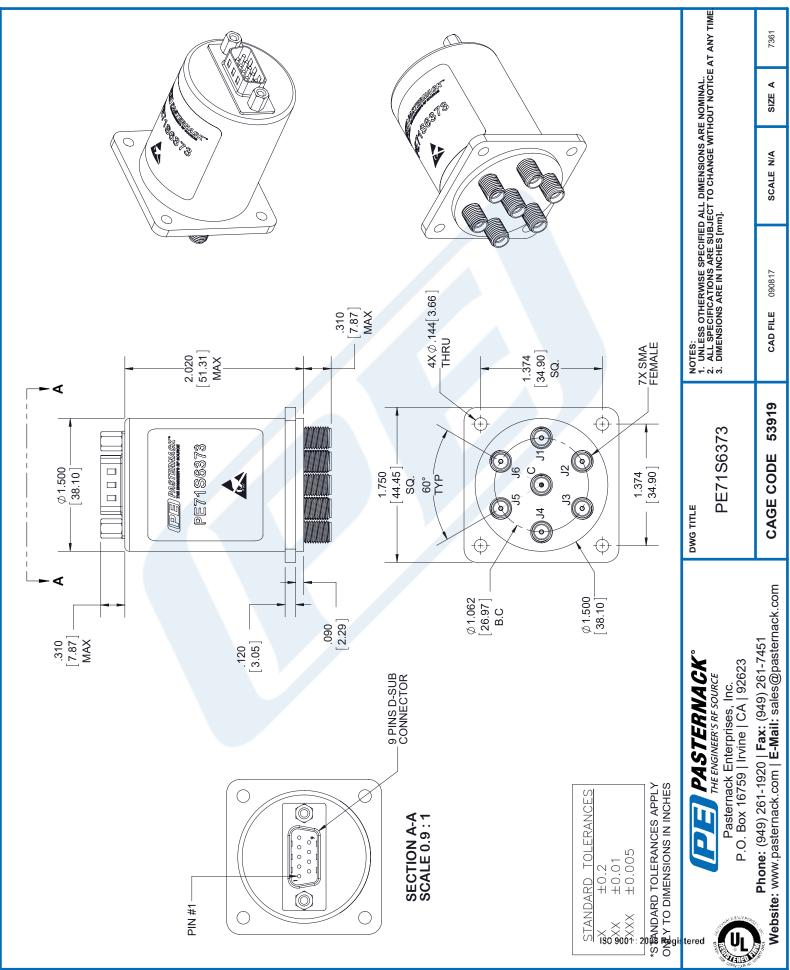
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



PE71S6373 CAD Drawing

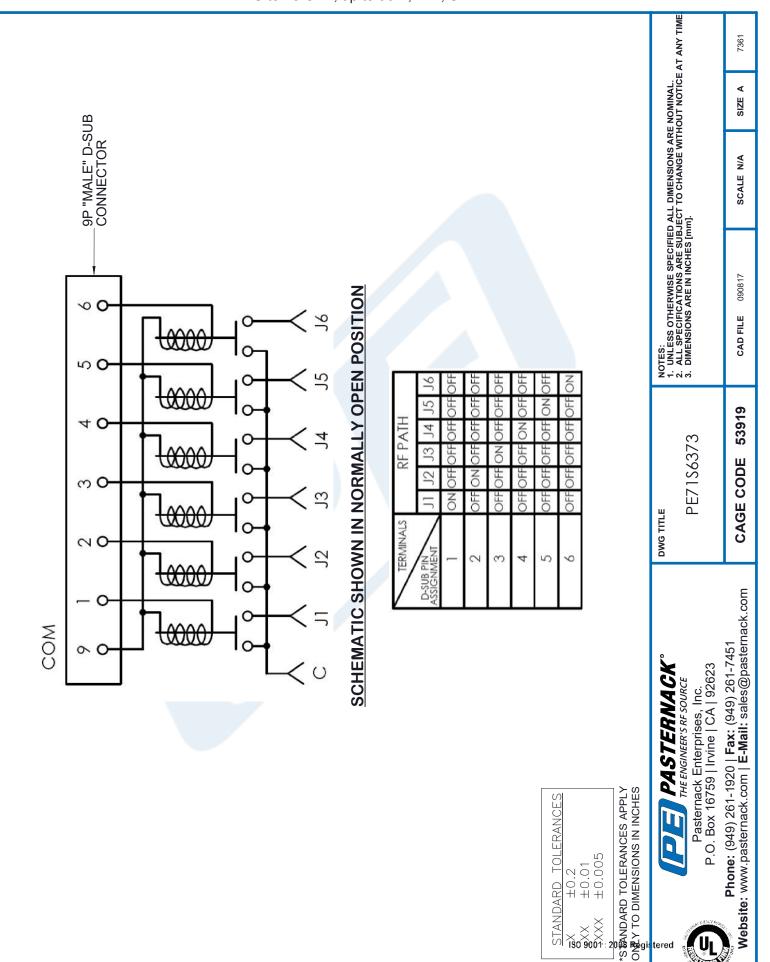
SP6T Electromechanical Relay Normally Open Switch,

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



PE71S6373 CAD Drawing SP6T Electromechanical Relay Normally Open Switch,

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



YL