



# Electromechanical Relay Switches Technical Data Sheet

## PE71S6361

#### **Features**

- Single Pole Double Throw
- DC to 26.5 GHz Frequency Range
- · Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Latching 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
- 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 PE71S6361 is a Single Pole Double Throw (SPDT) 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 Latching actuator and is rated for 5M 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 Latching 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 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**

Barriel Anthrop	Transformed	
Switching Sequence	Break before	Make
Actuator Type	Latching	
Switch Type	SPDT, Termi	nated

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	0.6	dB
Isolation	50	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: SPDT Electromechanical Relay Latching Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, SMA PE71S6361

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	<b>F</b> 3	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			
nsertion Loss, Max	0.15	0.25	0.35	0.6		dB	
Isolation, Min	80	70	60	50		dB	
Input Power, Typ (CW)	90	75	60	50		Watts	
hanical Specification	ns						
Package Type			(	Connectorized			
Operating Life			;	5,000,000 Cycles			
Connectors RF Connector Type Control Connector				SMA Female 9 Pin D-Sub			
vironmental Specifications Temperature Operating Range Storage Range				-25 to +70 deg C -55 to +100 deg C			
Shock				MIL-STD-202 Method 213, Cond. D 500G Non Op			
Vibration			I	ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating			
npliance Certification	<b>1S</b> (see produc	ct page for cu	rrent docum	ent)			
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 15.9 23.9 0.0 GHz 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

Typical Performance Data

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13.3

15.9

18.6

21.2

23.9

26.5

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3.00

0.0 GHz

2.7

5.3

8.0

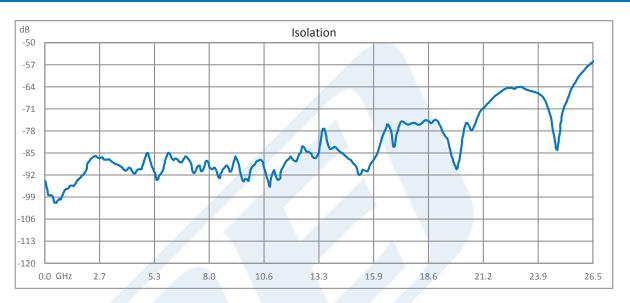
10.6





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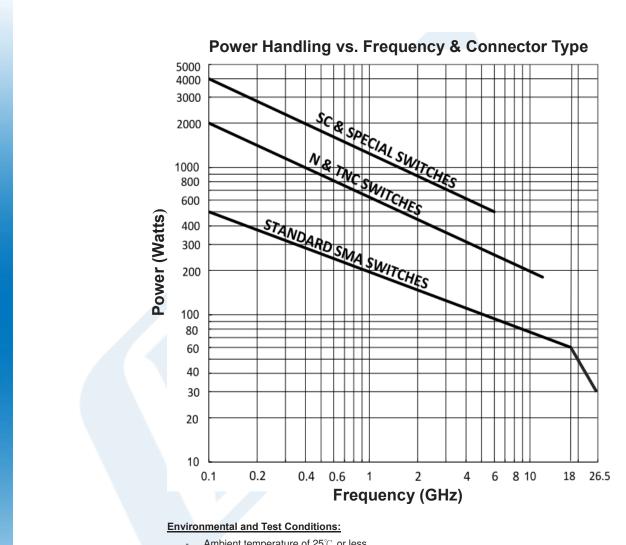
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#### Ambient temperature of 25°C or less -

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

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SPDT Electromechanical Relay Latching Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, 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.

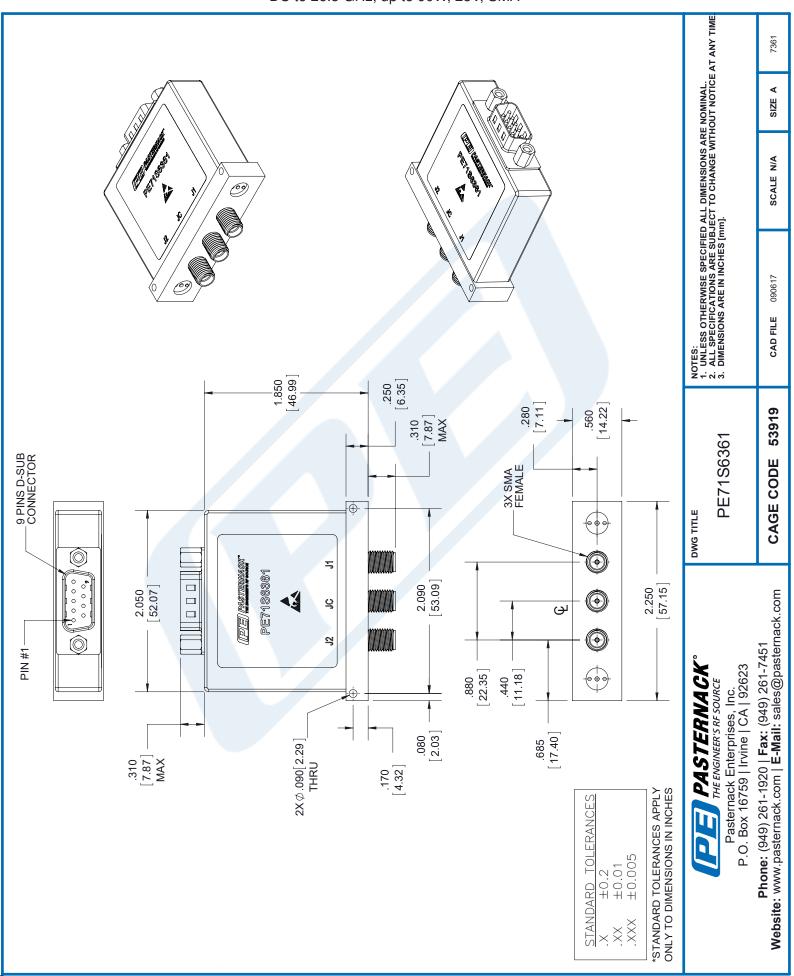
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URL: https://www.pasternack.com/spdt-electromechanical-relay-latching-switch-terminated-26.5-ghz-50w-28v-smape71s6361-p.aspx

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.

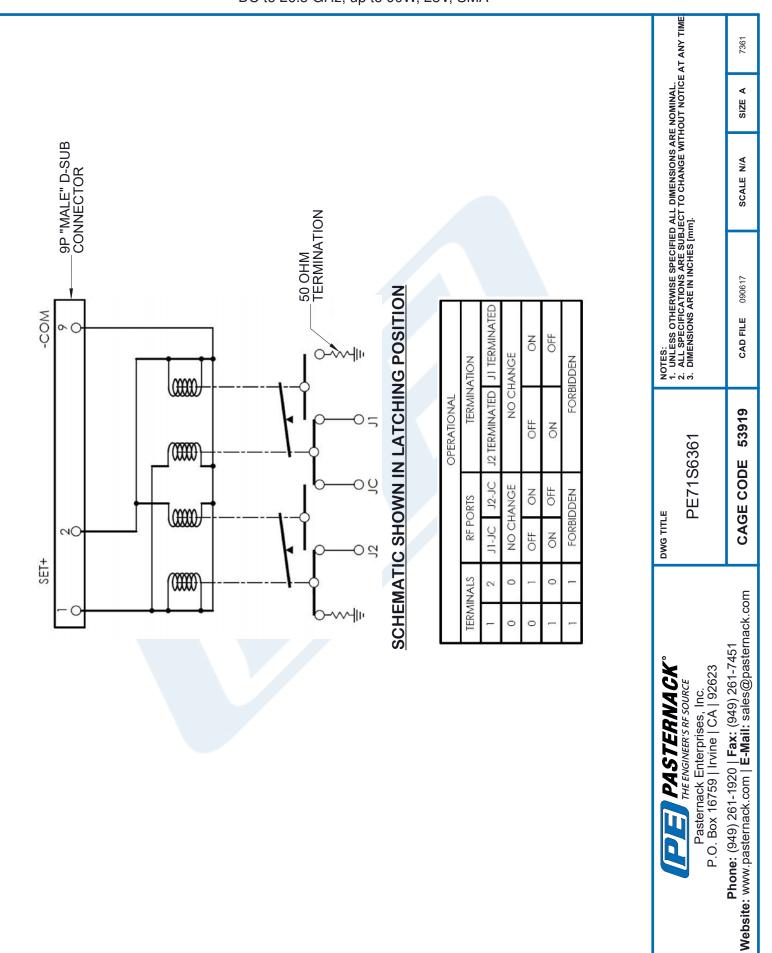
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SPDT Electromechanical Relay Latching Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, SMA



PE71S6361 CAD Drawing SPDT Electromechanical Relay Latching Switch, Terminated,

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