



Electromechanical Relay Switches Technical Data Sheet

PE71S6384

Features

- · Single Pole Eight 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

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.25:1 max
- SMA Female RF connectors
- 15 Pin D-Sub Connector for DC Control
- · Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request

Applications

- High Performance Relay Switch
- · Military Communications
- · Communications Systems
- · Test & Measurement

Description

The PE71S6384 is a Single Pole Eight Throw (SP8T) 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 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

Switch Type Actuator Type Switching Sequence SP8T 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 Current @ 12 Volts		200		mA
VSWR		1.25:1	1.6:1	
Insertion Loss		0.25	0.5	dB
Isolation	75	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: SP8T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA PE71S6384

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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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12	12 to 18			GHz
1.25:1	1.35:1	1.6:1			
0.25	0.35	0.5			dB
80	75	75			dB
90	75	60			Watts
	DC to 6 1.25:1 0.25 80	DC to 6 6 to 12 1.25:1 1.35:1 0.25 0.35 80 75	DC to 6 6 to 12 12 to 18 1.25:1 1.35:1 1.6:1 0.25 0.35 0.5 80 75 75	DC to 6 6 to 12 12 to 18 1.25:1 1.35:1 1.6:1 0.25 0.35 0.5 80 75 75	DC to 6 6 to 12 12 to 18 1.25:1 1.35:1 1.6:1 0.25 0.35 0.5 80 75 75

Mechanical Specifications

Size

Package Type Connectorized

Operating Life 2,000,000 Cycles

Connectors

RF Connector Type SMA Female Control Connector 15 Pin D-Sub

Environmental Specifications

Temperature

Operating Range -25 to +70 deg C Storage Range -55 to +100 deg C

Shock

MIL-STD-202 Method 213, Cond. D 500G Non Operating
MIL-STD-202 Method 214, Cond. D 10G RMS Non

Vibration

MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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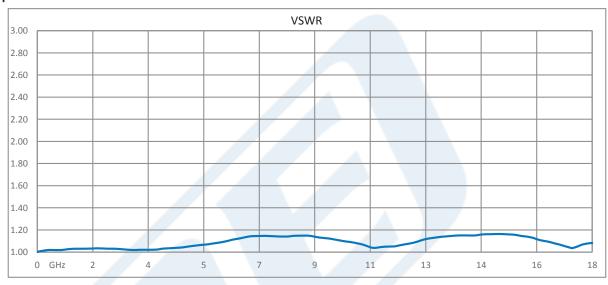


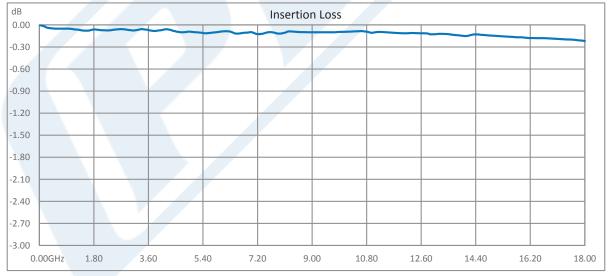


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Typical Performance Data





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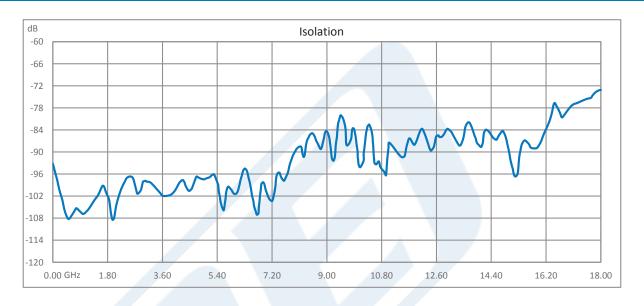
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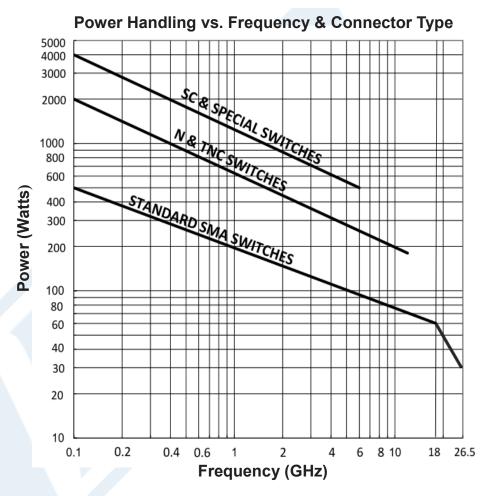
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Environmental and Test Conditions:

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

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SP8T 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.

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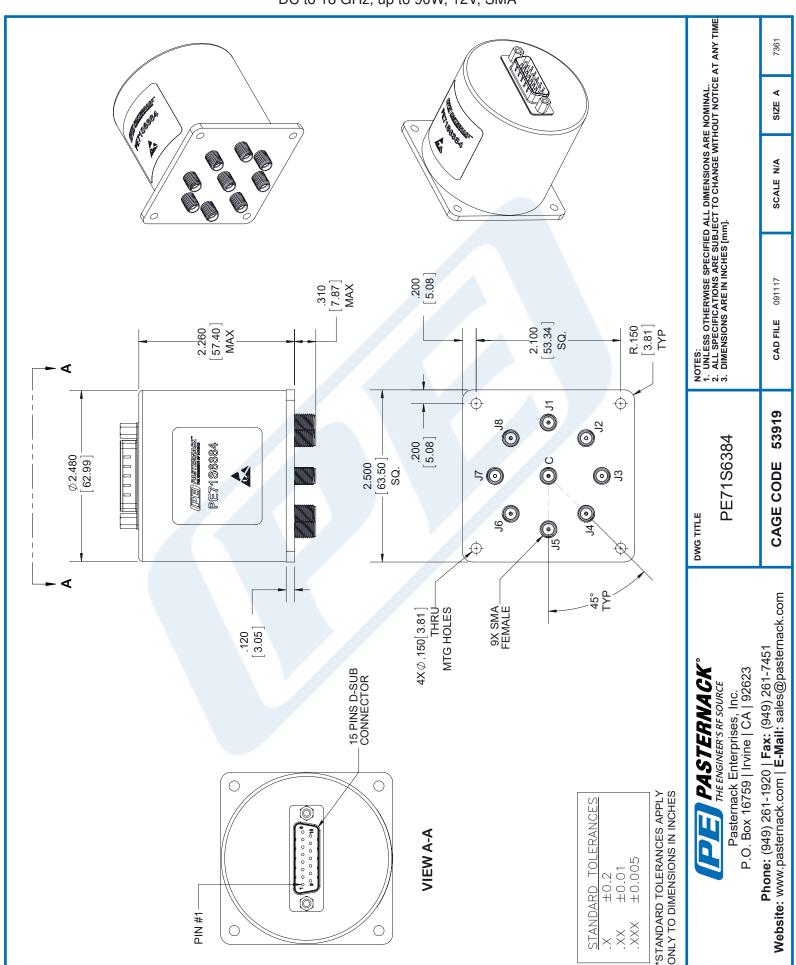
URL: https://www.pasternack.com/sp8t-electromechanical-relay-normally-open-switch-18-ghz-60w-12v-sma-pe71s6384-p. aspx

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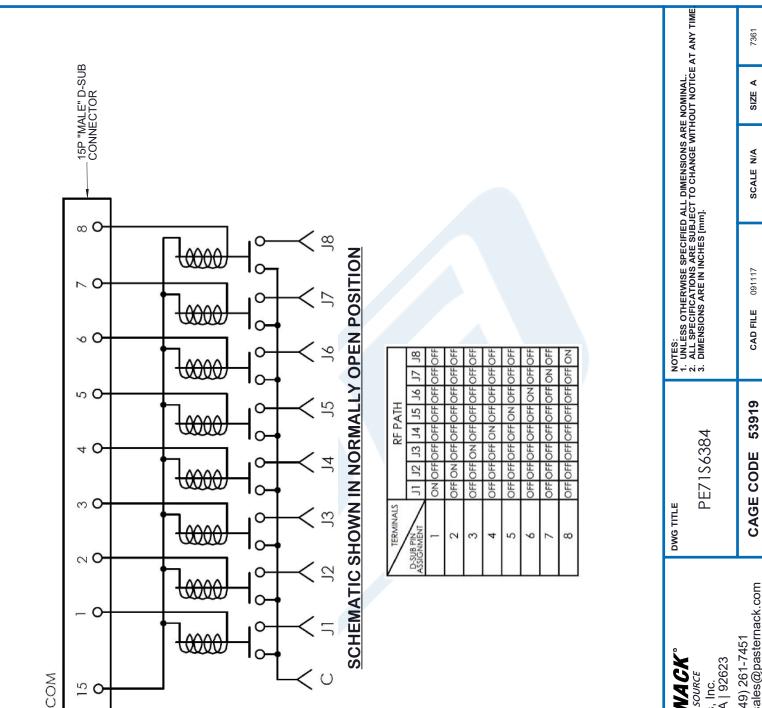
PE71S6384 CAD Drawing

SP8T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA



PE71S6384 CAD Drawing

SP8T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA



PASTERNACK 1

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

±0.005 ±0.2 ±0.01

 $\times \times \times \times$

STANDARD TOLERANCES

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