



## Electromechanical Relay Switches Technical Data Sheet

PE71S6184

#### **Features**

- Single Pole Four Throw Relay Switch
- DC to 10 GHz Frequency Range
- 1M Cycle Min Operating Life
- Normally Open Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes
- Insertion Loss 0.6 dB max
- Isolation 60 dB min
- 50 Watts Avg Power Max
- Switching Sequence Break Before Make

#### **Applications**

- Test & Measurement
- · Communications System
- Instrumentation

#### Description

The PE71S6184 is a Single Pole Four Throw Electromechanical Relay Switch that operates from DC to 10 GHz and has a rating of 50 Watts input power (CW) in a Break Before Make condition. The design features a Normally Open Actuator with TTL Logic Driver, Position Indicators, Suppression Diodes and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.25 dB max and Isolation from 80 dB min, with +12 Vdc operating voltage and performance is guaranteed over -25°C to +65°C. The package interface uses solder terminals and N Female connectors.

#### **Electrical Specifications**

Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

SP4T, Reflective Normally Open Break Before Make Indicators, TTL Logic, Diodes

on: 2.4 to 5 Volts off: 0 to 0.8 Volts

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		255		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW)			50	Watts
(at 10 GHz)				

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 DC to 10 GHz, N, 50 Watts, 12V Control, Indicators, TTL, Diodes PE71S6184

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

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 10			GHz
VSWR, Max	1.25:1	1.4:1	1.6:1			
Insertion Loss, Max	0.25	0.4	0.6			dB
Isolation, Min	80	70	60			dB

#### **Mechanical Specifications**

Size

Length

Width/Diameter

Height

Weight

Body Material and Plating

Package Type

Operating Life

Switching Time

Connectors

RF Connector Type

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

**Control Connector** 

**Environmental Specifications** 

Temperature

Operating Range

**ESD Sensitivity** 

3.21 in [81.53 mm]

2.47 in [62.74 mm]

2.47 in [62.74 mm]

1.156 lbs [524.35 g]

Aluminum

Connectorized Module

1,000,000 Cycles

50 ms Max

N Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-25 to +65 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes:

Designed to meet MIL-DTL-3928

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

#### **Plotted and Other Data**

Notes:

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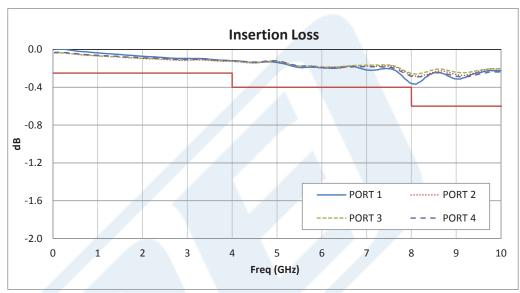


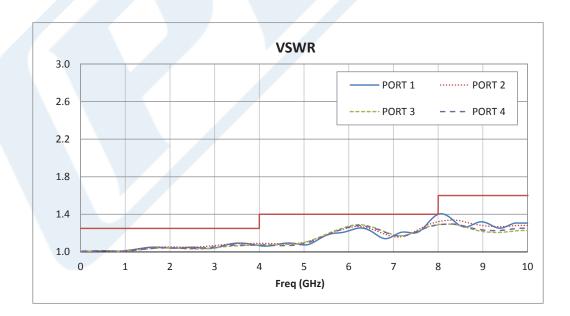


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#### **Typical Performance Data**





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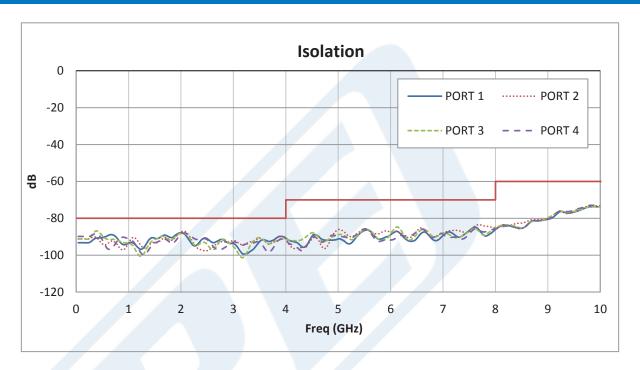
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URL: http://www.pasternack.com/n-sp4t-electromechanical-relay-switch-10-ghz-indicators-normally-open-ttl-logic-pe71s6184-p.aspx

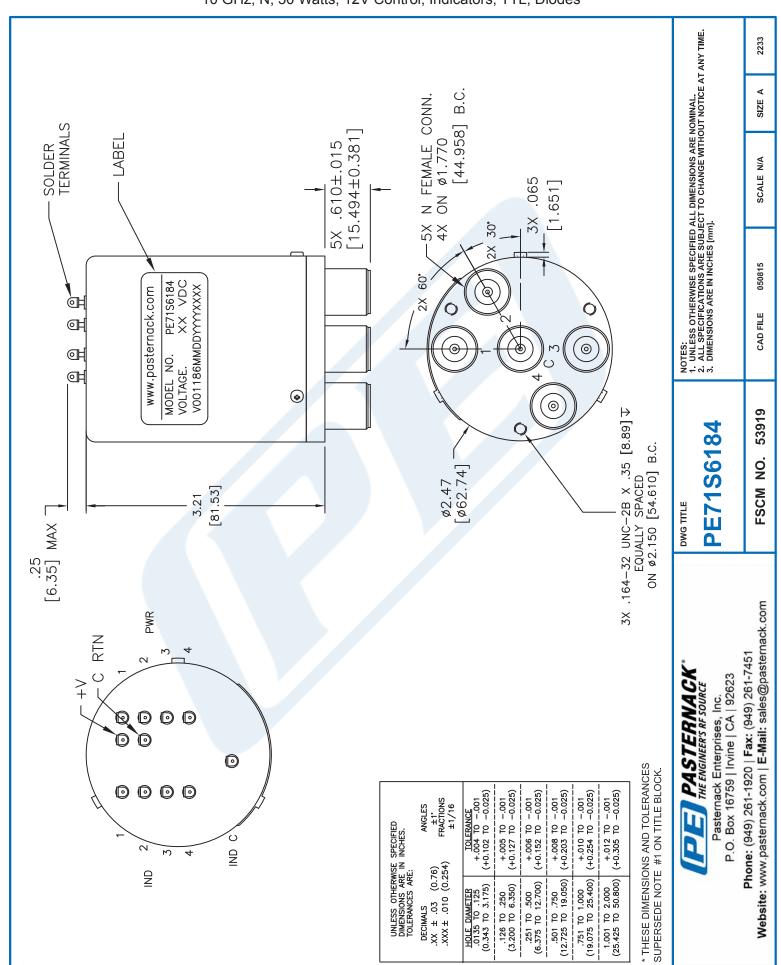
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PE71S6184 REV 1.1



## PE71S6184 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 12V Control, Indicators, TTL, Diodes



## PE71S6184 CAD Drawing

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