



## Electromechanical Relay Switches Technical Data Sheet

PE71S6187

### **Features**

- Single Pole Six Throw Relay Switch
- DC to 10 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Normally Open Actuator

- · 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 PE71S6187 is a Single Pole Six 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 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 +28 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 SP6T, Reflective Normally Open Break Before Make

Description	Minimum	Typical	Mayimum	Unite
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Volts		150		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: SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 28V Control PE71S6187

ISO 9001 : 2008 Registered





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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

2.3 in [58.42 mm] 2.47 in [62.74 mm] 2.47 in [62.74 mm]

1.156 lbs [524.35 q]

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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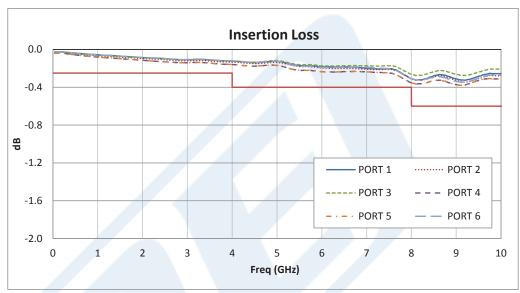


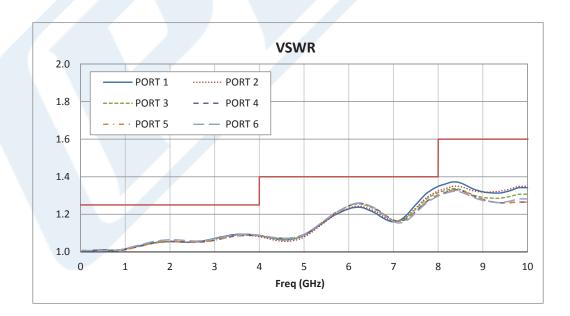


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#### **Typical Performance Data**





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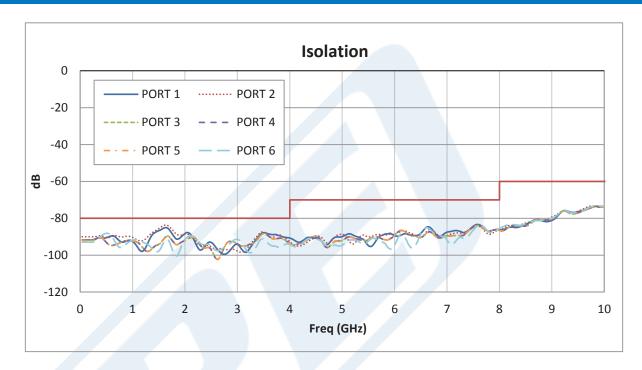






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SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 28V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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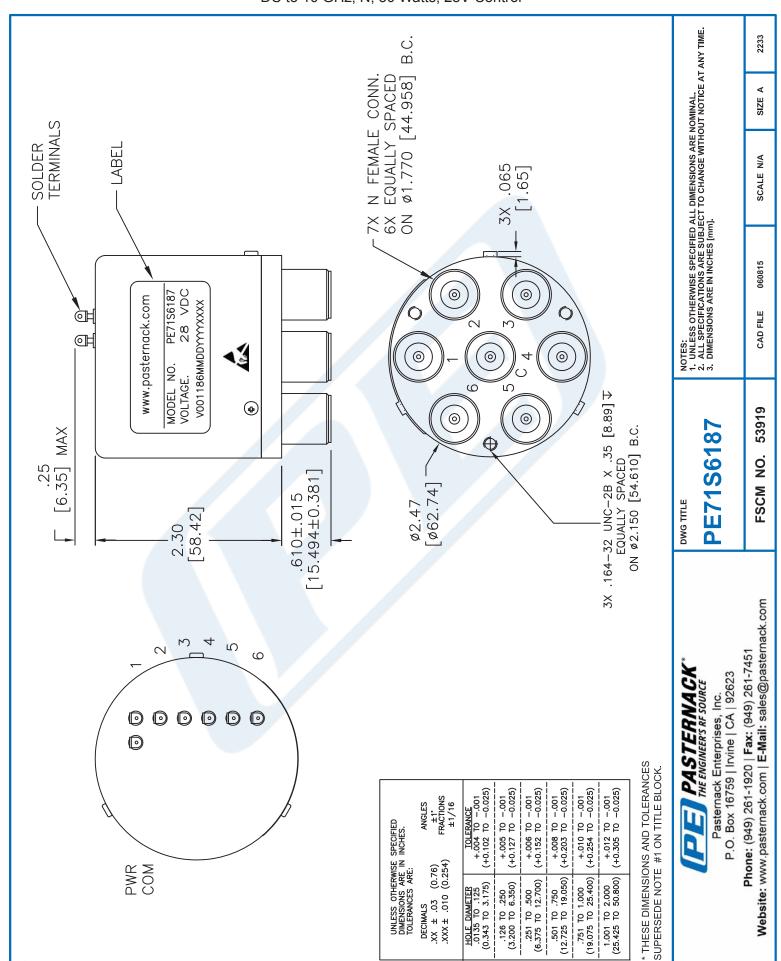
URL: http://www.pasternack.com/n-sp6t-electromechanical-relay-switch-10-ghz-normally-open-pe71s6187-p.aspx

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.



# PE71S6187 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 28V Control



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SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 28V Control

