



## Electromechanical Relay Switches Technical Data Sheet

#### PE71S6186

<ul> <li>Features</li> <li>Single Pole Six Throw Relay Switch</li> <li>DC to 10 GHz Frequency Range</li> <li>1M Cycle Min Operating Life</li> <li>Normally Open Actuator</li> </ul>		<ul> <li>Insertion Loss 0.6 dB max</li> <li>Isolation 60 dB min</li> <li>50 Watts Avg Power Max</li> <li>Switching Sequence Break Before Make</li> </ul>		
Applications     Test & Measurement	Communications System		Instrumentation	

#### Description

The PE71S6186 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 +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		SP6T, Reflec Normally Op Break Befor		
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) (at 10 GHz)			50	Watts

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, 12V Control PE71S6186

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#### Performance by Frequency **F4 F5** Units Description **F1 F2** F3 DC to 4 GHz Frequency Range 4 to 8 8 to 10 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 Lenath 2.3 in [58.42 mm] Width/Diameter 2.47 in [62.74 mm] 2.47 in [62.74 mm] Height 1.156 lbs [524.35 g] Weight Body Material and Plating Aluminum Package Type **Connectorized Module** 1,000,000 Cycles Operating Life Switching Time 50 ms Max Connectors **RF** Connector Type N Female RF Connector Contact Material and Plating Beryllium Copper, Gold RF Connector Body Material and Plating Passivated Stainless Steel **Control Connector** Solder Pin **Environmental Specifications** Temperature **Operating Range** -25 to +65 deg C ESD Sensitive Material. Transport material in Approved **ESD** Sensitivity 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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**Typical Performance Data** 

2.0

1.8

1.6

1.4

1.2

1.0

0

PORT 1

----- PORT 3

1

- · PORT 5

----- PORT 2

--- PORT 4

3

2

4

— PORT 6

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5

Freq (GHz)

6

7

8

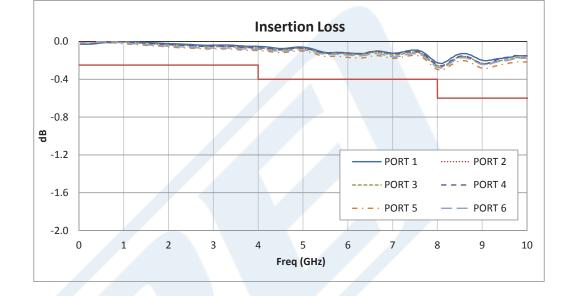
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**VSWR** 

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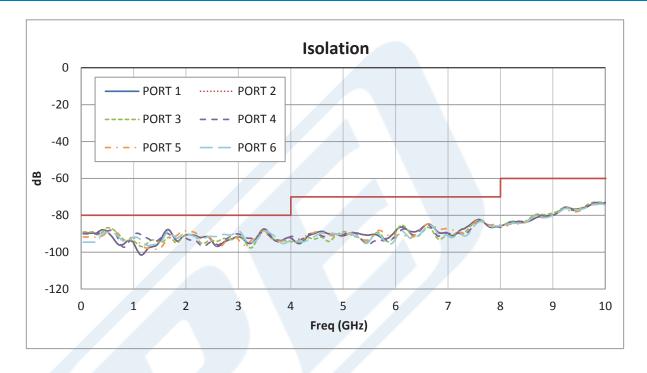






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SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 12V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability 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-pe71s6186-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.

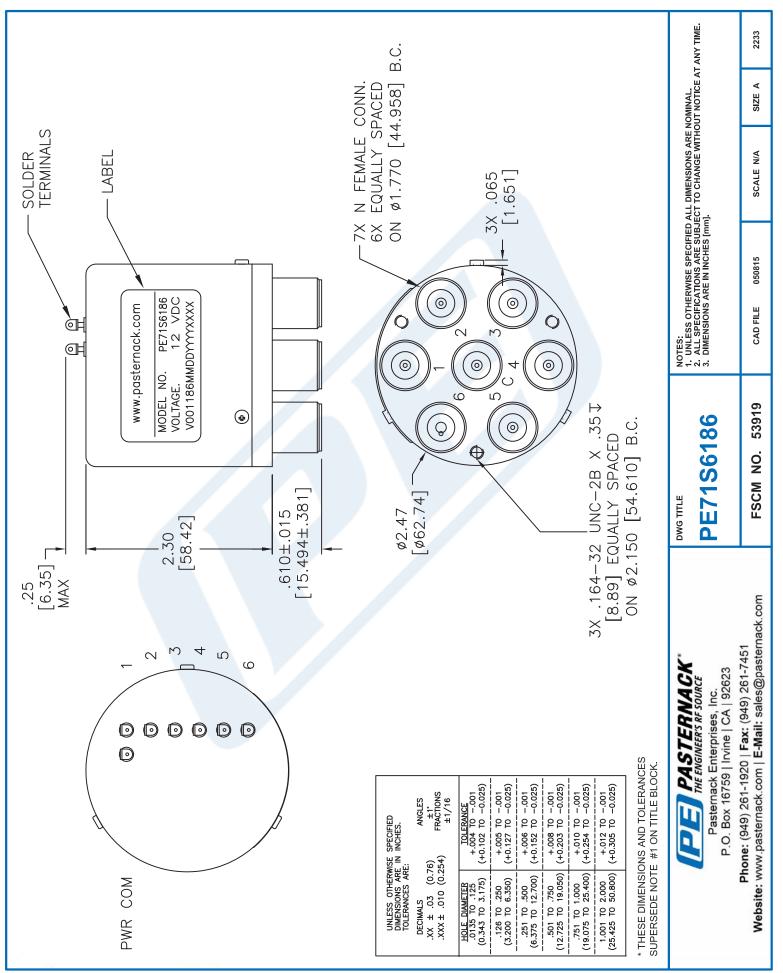
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PE71S6186 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 12V Control



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SP6T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 50 Watts, 12V Control

