

SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 50 Watts, 12V Control



### Electromechanical Relay Switches Technical Data Sheet

### PE71S6150

Features <ul> <li>Single Pole Double Throw Relay Switc</li> <li>DC to 12.4 GHz Frequency Range</li> <li>1M Cycle Min Operating Life</li> </ul>	•	<ul> <li>Insertion Loss 0.6 dB max</li> <li>Isolation 60 dB min</li> <li>50 Watts Avg Power Max</li> </ul>				
<ul> <li>Failsafe Actuator</li> <li>Applications</li> <li>Test &amp; Measurement</li> </ul>	Communications Sy		ning Sequer	e Break Before Make     Instrumentation		

#### Description

The PE71S6150 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 12.4 GHz and has a rating of 50 Watts input power (CW) in a Break Before Make condition. The design features a Failsafe Actuator and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 80 dB min, with +12 Vdc operating voltage and performance is guaranteed over -55°C to +85°C. The package interface uses solder terminals and N Female connectors.

<b>ctrical Specifications</b> Switch Type Actuator Type Switching Sequence	SPDT, Reflective Failsafe Break Before Make				
Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		12.4	GHz	
Impedance		50		Ohms	
Operating Voltage		12		Volts	
Actuating Current @ 12 Volts		270		mA	
VSWR			1.6:1		
Insertion Loss			0.6	dB	
Isolation	60			dB	
Input Power (CW) (at 12.4 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: SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 50 Watts, 12V Control PE71S6150

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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#### Performance by Frequency **F4 F5** Description **F1 F2** F3 Units DC to 2 4 to 12.4 GHz Frequency Range 2 to 4 VSWR, Max 1.15:1 1.2:1 1.6:1 Insertion Loss, Max 0.2 0.25 0.6 dB Isolation, Min 80 80 60 dB **Mechanical Specifications** Size Lenath 1.61 in [40.89 mm] Width/Diameter 2.46 in [62.48 mm] 0.9 in [22.86 mm] Height Weight 0.53 lbs [240.4 g] 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** -55 to +85 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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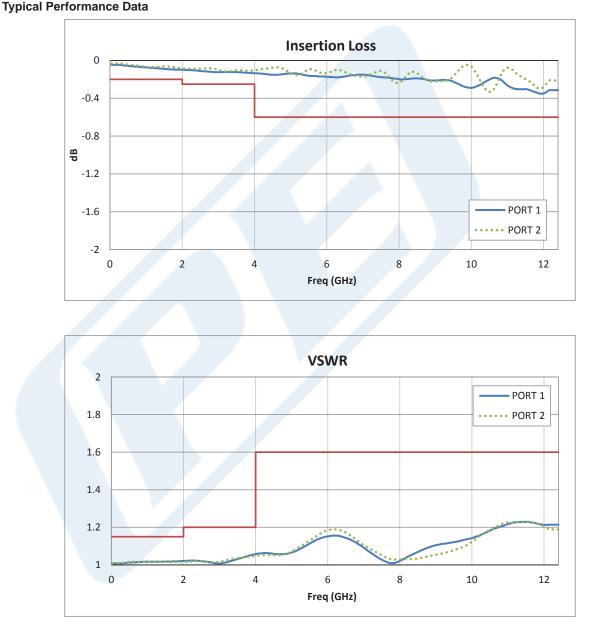
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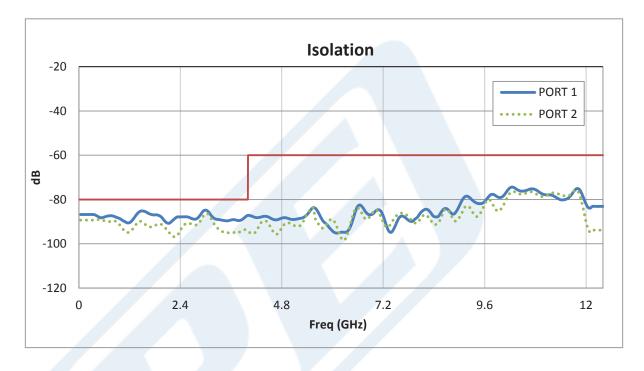




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URL: http://www.pasternack.com/n-spdt-electromechanical-relay-switch-12.4-ghz-failsafe-pe71s6150-p.aspx

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.

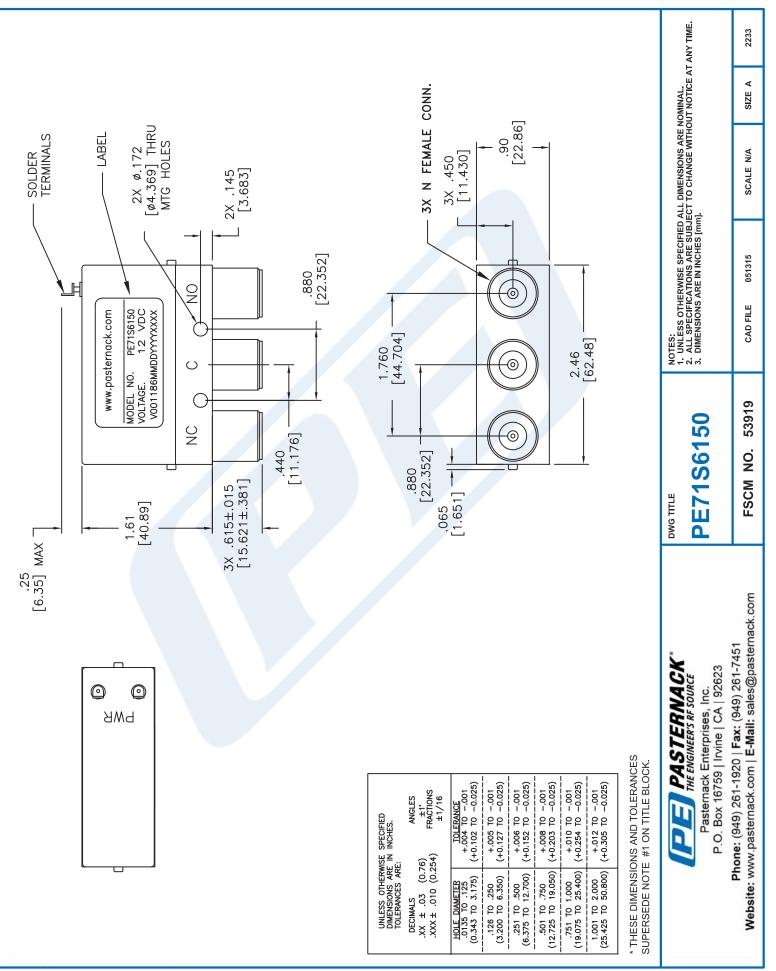
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## PE71S6150 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 50 Watts, 12V Control



PE71S6150 CAD Drawing SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 50 Watts, 12V Control

