



Electromechanical Relay Switches Technical Data Sheet

PE71S6144

Features

- Single Pole Six Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- Normally Open Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes

Applications

- Test & Measurement
- Communications System
- Instrumentation
- Suitable for Aircraft

Description

The PE71S6144 is a Single Pole Six Throw Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 3 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 0.2 dB max and Isolation from 70 dB min, with +12 Vdc operating voltage and performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92mm Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Actuator Options TTL Control SP6T, Reflective Normally Open Break Before Make Indicators, TTL Logic, Diodes on: 2.4 to 5 Volts off: 0 to 0.8 Volts

Insertion Loss 1 dB max

3 Watts Avg Power Max

Switching Sequence Break Before Make

Isolation 50 dB min

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Operating Voltage	10.8	12	13.2	Volts
Actuating Current @ 12 Volts			200	mA
VSWR			2:1	
Insertion Loss			1	dB
Isolation	50			dB
Input Power (CW)			3	Watts
(at 40 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 40 GHz, 2.92mm, 3 Watts, 12V Control, Indicators, TTL, Diodes PE71S6144

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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Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 18	18 to 26.5	26.5 to 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	1	dB
Isolation, Min	70	60	60	55	50	dB

Mechanical Specifications

Size Length Width/Diameter Height Weight Body Material and

Body Material and Plating Package Type

Operating Life Switching Time

Connectors

RF Connector Type RF Connector Specification RF Connector Contact Material and Plating RF Connector Body Material and Plating Control Connector

Environmental Specifications

Temperature Operating Range ESD Sensitivity



Environmental Specification Notes: Designed to meet MIL-E-5400 and MIL-S-3928

Compliance Certifications (visit www.Pasternack.com for current document) Not RoHS Compliant

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2.25 in [57.15 mm] 1.75 in [44.45 mm] 1.75 in [44.45 mm] 0.288 lbs [130.63 g] Aluminum Connectorized Module

1,000,000 Cycles 15 ms Max

2.92mm Female MIL-C-39012 Beryllium Copper, Gold Passivated Stainless Steel Solder Pin

-35 to +85 deg C ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.

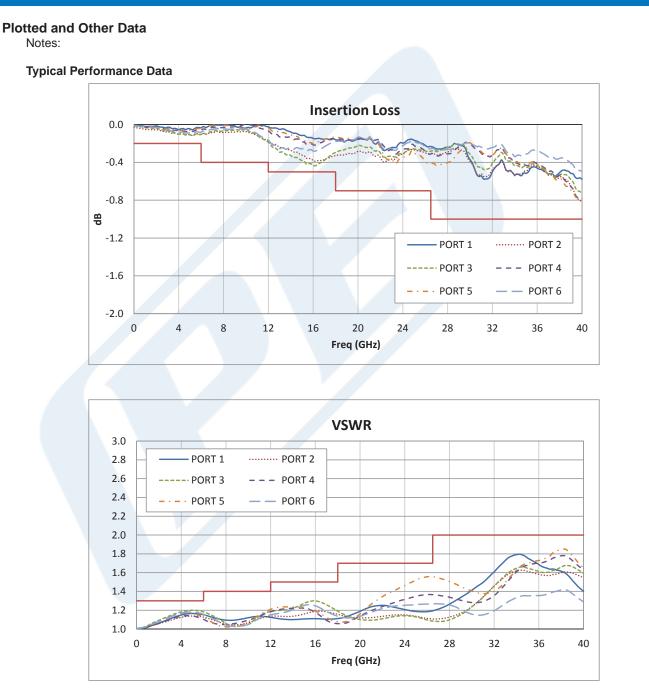






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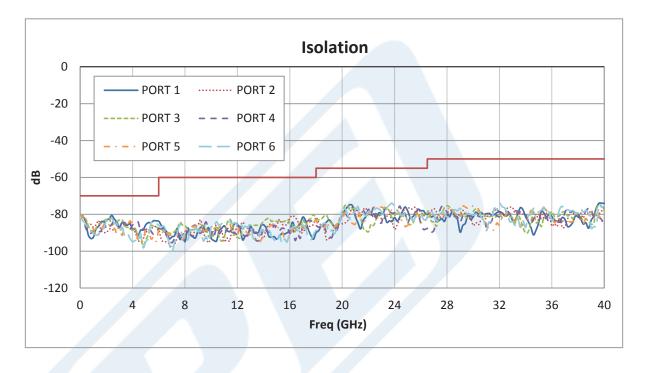
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URL: http://www.pasternack.com/2.92mm-sp6t-electromechanical-relay-switch-40-ghz-normally-open-indicators-ttl-logicpe71s6144-p.aspx

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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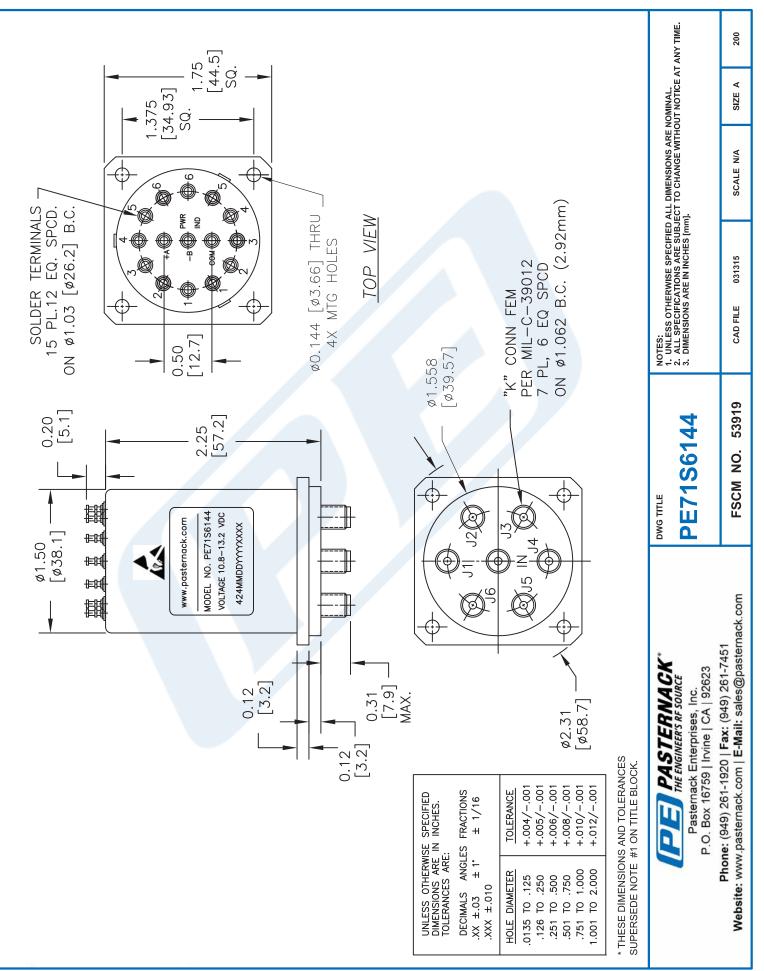
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PE71S6144 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch DC to 40 GHz, 2.92mm, 3 Watts, 12V Control, Indicators, TTL, Diodes



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2.92mm, 3 Watts, 12V Control, Indicators, TTL, Diodes

