





Electromechanical Relay Switches Technical Data Sheet

PE71S6104

Features

- · Single Pole Double Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Failsafe Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes
- · Insertion Loss 0.8 dB max
- Isolation 50 dB min
- 10 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications

- · Test & Measurement
- · Communications System
- Instrumentation

Description

The PE71S6104 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 10 Watts input power (CW) in a Break Before Make condition. The design features a Failsafe 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

SPDT, Reflective Failsafe 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		40	GHz	
Impedance		50		Ohms	
Operating Voltage		12		Volts	
Actuating Current @ 12 Volts			350	mA	
VSWR			1.9:1		
Insertion Loss			0.8	dB	
Isolation	50			dB	
Input Power (CW)			10	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: SPDT Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 10 Watts, 12V Control, Indicators, TTL, Diodes PE71S6104

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 6	6 to 12	12 to 18.5	18.5 to 26.5	26.5 to 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	1.9:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	0.8	dB
Isolation, Min	70	60	60	55	50	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

1.92 in [48.77 mm] 1.5 in [38.1 mm] 0.52 in [13.21 mm]

0.132 lbs [59.87 g]

Aluminum

Connectorized Module

1,000,000 Cycles

15 ms Max

2.92mm Female

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.



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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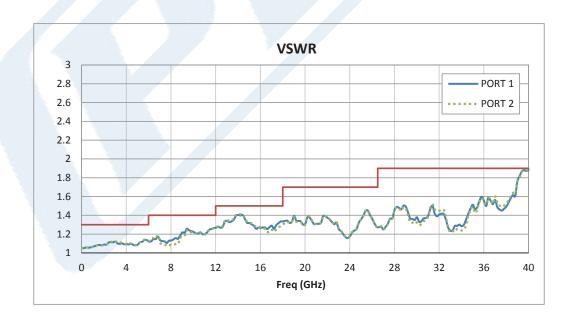
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Typical Performance Data





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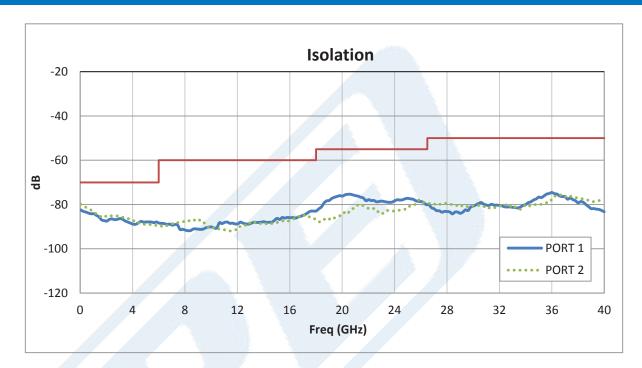




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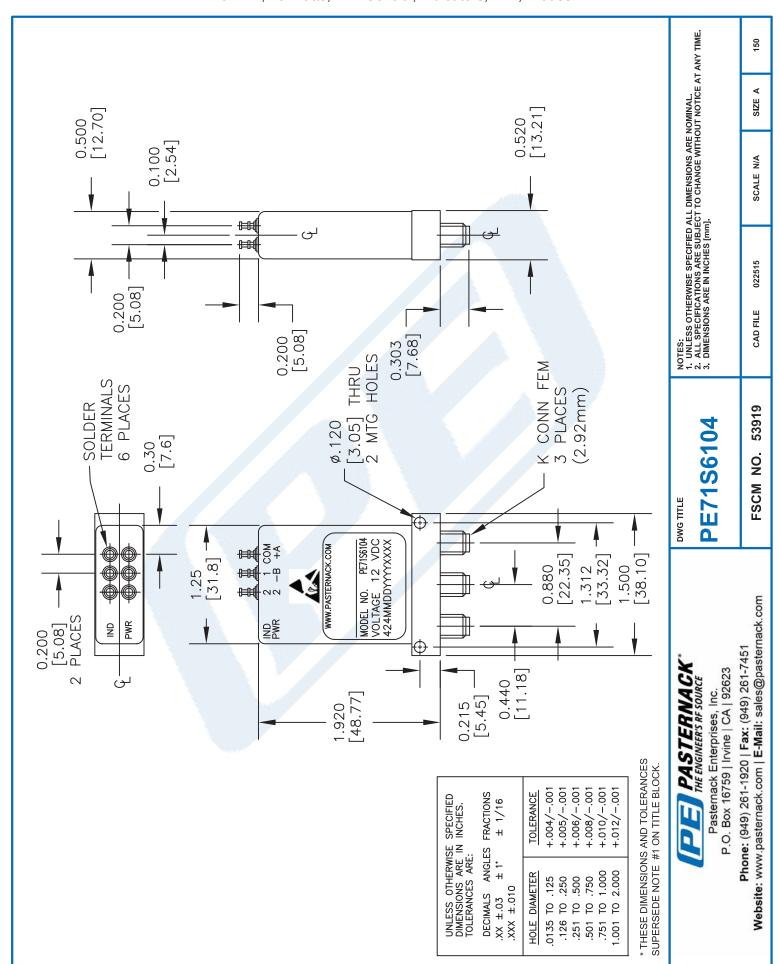
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PE71S6104 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 10 Watts, 12V Control, Indicators, TTL, Diodes



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