



Electromechanical Relay Switches Technical Data Sheet

PE71S6102

Features

- Single Pole Double Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- Failsafe Actuator

Applications

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

Description

The PE71S6102 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 and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 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.

Insertion Loss 0.8 dB max

10 Watts Avg Power Max

Switching Sequence Break Before Make

Isolation 50 dB min

ctrical Specifications Switch Type Actuator Type Switching Sequence	SPDT, Reflective Failsafe Break Before Make			
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			260	mA
VSWR			1.9:1	
Insertion Loss			0.8	dB
Isolation	50			dB
Input Power (CW)			10	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 40 GHz, 2.92mm, 10 Watts, 12V Control PE71S6102

ISO 9001 : 2008 Registered

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	18 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	0.3	0.4	0.5	0.7	0.8	dB
Isolation, Min	70	60	60	55	50	dB

1.42 in [36.07 mm]

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

0.11 lbs [49.9 q]

Connectorized Module 1,000,000 Cycles

Beryllium Copper, Gold

Passivated Stainless Steel

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.

Aluminum

15 ms Max

Solder Pin

2.92mm Female

-35 to +85 deg C

Mechanical Specifications

Size Length Width/Diameter Height Weight Redy Material and

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



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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

Plotted and Other Data

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

Notes:

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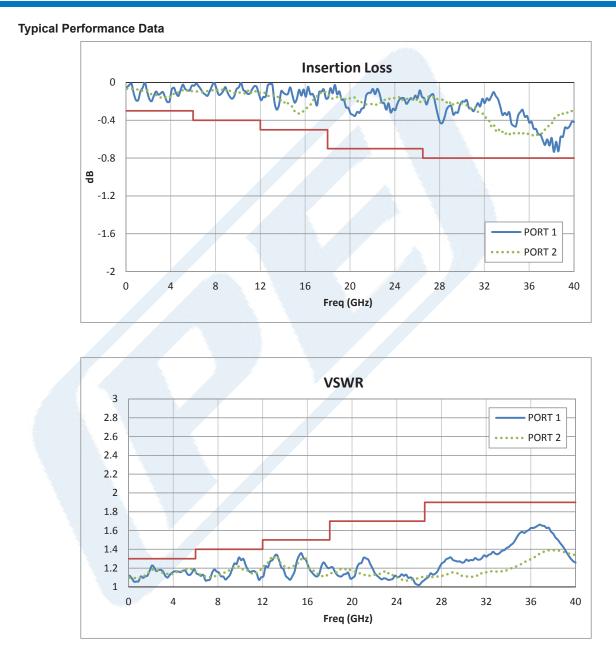
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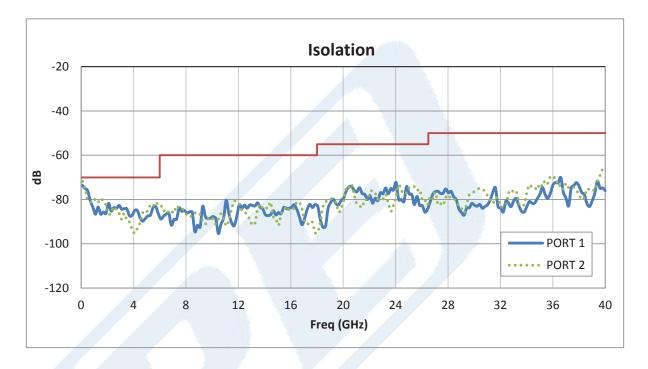
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SPDT Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 10 Watts, 12V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/2.92mm-spdt-electromechanical-relay-switch-40-ghz-failsafe-pe71s6102-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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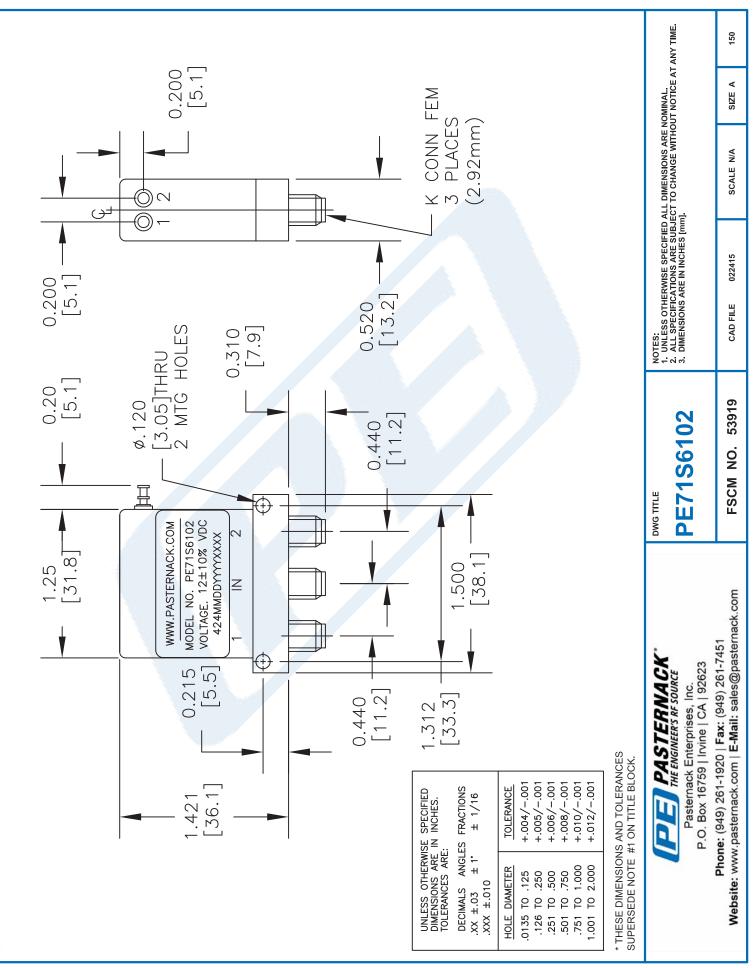
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PE71S6102 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to

40 GHz, 2.92mm, 10 Watts, 12V Control



5

PE71S6102 CAD Drawing

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

