

SPDT Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 10 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes



## **Electromechanical Relay Switches Technical Data Sheet**

PE71S6108

#### **Features**

- · Single Pole Double Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, TTL Logic Driver, Position Indicators, Suppression Diodes
- · Insertion Loss 0.8 dB max
- Isolation 55 dB min
- 10 Watts Avg Power Max
- Switching Sequence Break Before Make

## **Applications**

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

#### **Description**

The PE71S6108 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 Latching Actuator with Self Cut Off circuitry, 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 Latching Break Before Make Indicators, TTL Logic, Self Cut Off, 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	10.8	12	13.2	Volts	
Actuating Current @ 12 Volts			160	mA	
VSWR			1.9:1		
Insertion Loss			0.8	dB	
Isolation	55			dB	
Input Power (CW) (at 40 GHz)			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 Latching Switch DC to 40 GHz, 2.92mm, 10 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes PE71S6108

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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## **Electromechanical Relay Switches Technical Data**

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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	1.2:1	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	55	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** 

Operating Range

**ESD Sensitivity** 

-35 to +85 deg C

1.92 in [48.77 mm]

0.136 lbs [61.69 q]

Connectorized Module 1,000,000 Cycles

Beryllium Copper, Gold

Passivated Stainless Steel

Aluminum

15 ms Max

Solder Pin

2.92mm Female

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

ESD Sensitive Material. Transport material in Approved

ESD bags. Handle in approved ESD Workstation.

**Temperature** 

**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**

Notes:

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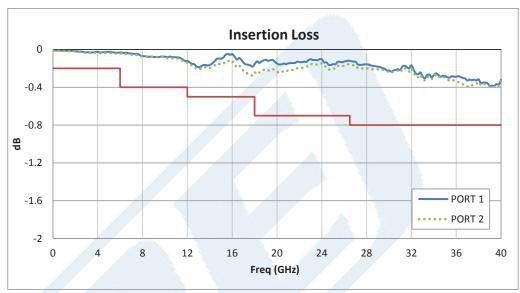
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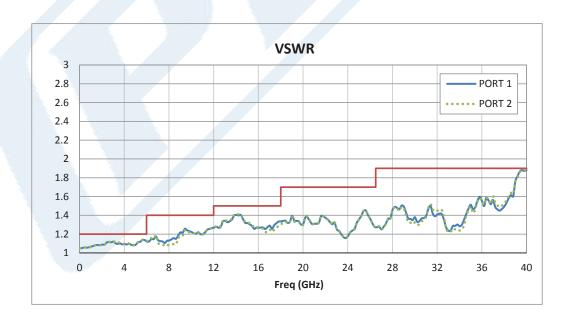


## **Electromechanical Relay Switches Technical Data**

### PE71S6108

#### **Typical Performance Data**





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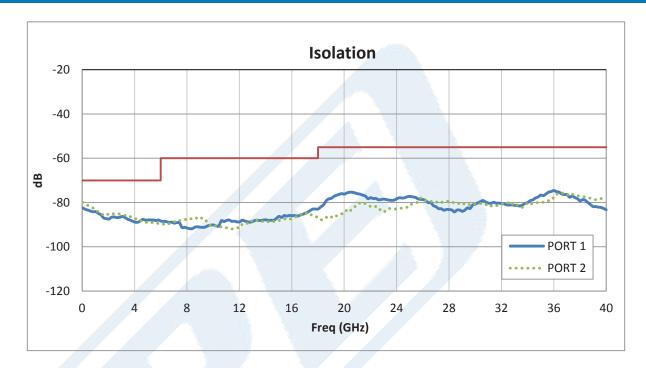


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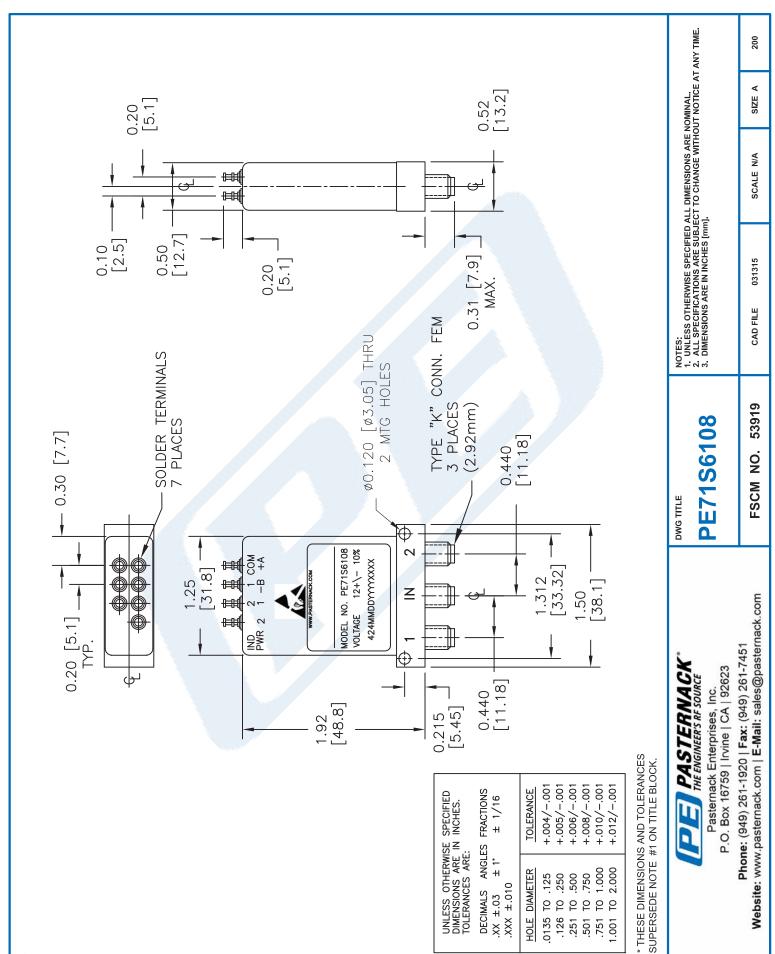
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URL: http://www.pasternack.com/2.92mm-spdt-electromechanical-relay-switch-40-ghz-indicators-latching-ttl-logic-pe71s6108-p.aspx

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.

# PE71S6108 CAD Drawing

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