





# **Electromechanical Relay Switches Technical Data Sheet**

PE71S6120

### **Features**

- · Transfer Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Failsafe Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes
- Insertion Loss 0.9 dB max
- Isolation 50 dB min
- 5 Watts Avg Power Max
- Switching Sequence Break Before Make

## **Applications**

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

## **Description**

The PE71S6120 is a Transfer Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 5 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 0.3 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.

#### **Electrical Specifications**

Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

Transfer, 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 10.8 12 Operating Voltage 13.2 Volts Actuating Current @ 12 Volts 690 mΑ **VSWR** 2:1 Insertion Loss 0.9 Isolation Input Power (CW) 5 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: Transfer Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Indicators, TTL, Diodes PE71S6120

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** 



ISO 9001 : 2008 Registered





# Transfer Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Indicators, TTL, Diodes

# **Electromechanical Relay Switches Technical Data**

## PE71S6120

#### 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	2:1	
Insertion Loss, Max	0.3	0.4	0.5	0.7	0.9	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 Specification

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

**Control Connector** 

**Environmental Specifications** 

**Temperature** 

Operating Range

**ESD Sensitivity** 

1.88 in [47.75 mm] 1.26 in [32 mm]

1.26 in [32 mm]

0.226 lbs [102.51 g]

Aluminum

Connectorized Module

1,000,000 Cycles

20 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.



**Environmental Specification Notes:** 

Designed to meet MIL-E-5400 and MIL-DTL-3928

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

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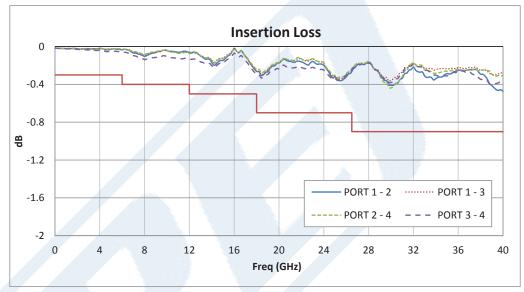
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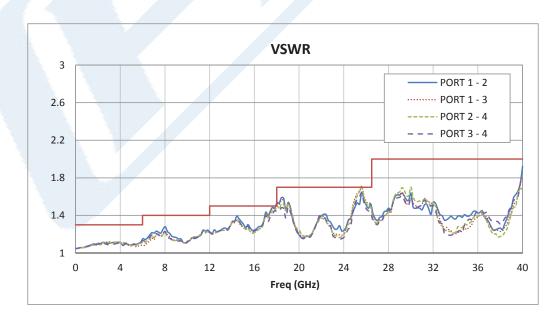
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Plotted and Other Data Notes:

**Typical Performance Data** 





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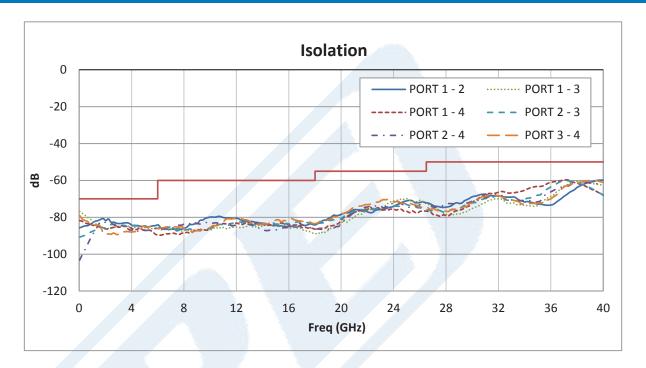




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## PE71S6120



Transfer Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Indicators, TTL, Diodes 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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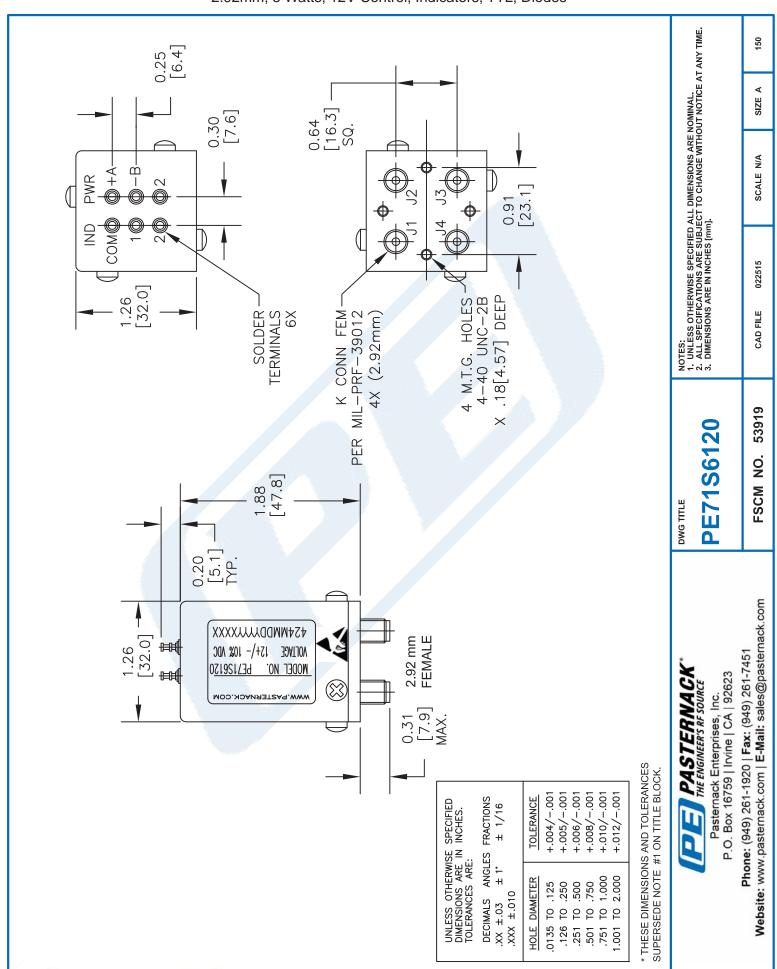
URL: http://www.pasternack.com/2.92mm-transfer-electromechanical-relay-switch-40-ghz-indicators-failsafe-ttl-logicpe71s6120-p.aspx

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.



# PE71S6120 CAD Drawing

Transfer Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Indicators, TTL, Diodes



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