



Transfer Electromechanical Relay Failsafe Switch DC to 40 GHz, 2.92mm, 5 Watts, 28V Control, Indicators, TTL, Diodes

Electromechanical Relay Switches Technical Data Sheet

PE71S6121

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 PE71S6121 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 +28 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

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	24	28	30	Volts
Actuating Current @ 28 Volts			280	mA
VSWR			2:1	
Insertion Loss			0.9	dB
Isolation	50			dB
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, 28V Control, Indicators, TTL, Diodes PE71S6121

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





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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	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

Connector Body Material and Flating

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]

0.225 lbs [102.06 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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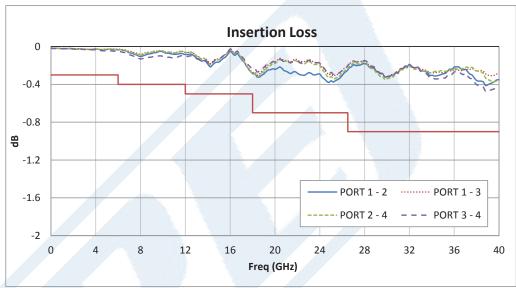
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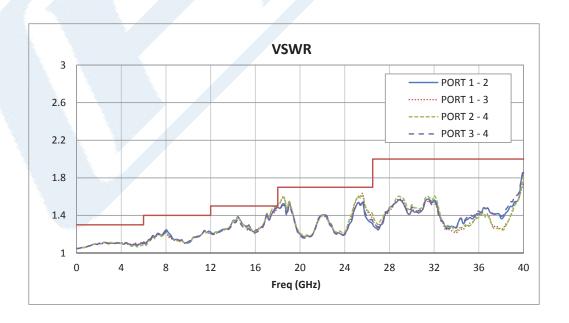
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Plotted and Other Data Notes:

Typical Performance Data





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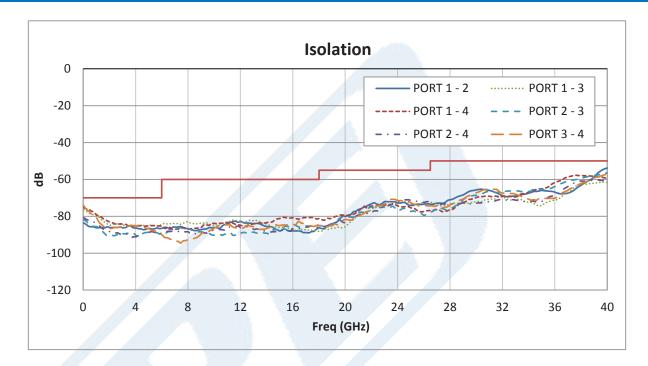




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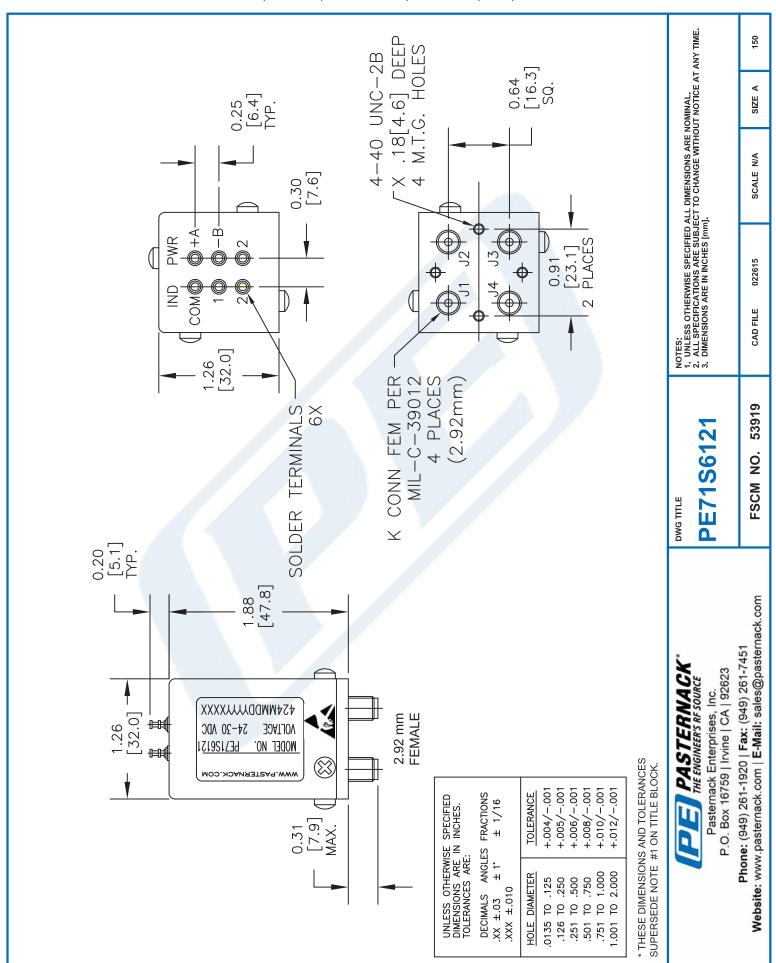
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PE71S6121 CAD Drawing

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