



Electromechanical Relay Switches Technical Data Sheet

PE71S6172

Features

- Transfer Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, TTL Logic Driver, Position Indicators, Suppression Diodes
- · Insertion Loss 0.4 dB max
- Isolation 60 dB min
- 50 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications

- Test & Measurement
- · Communications System
- Instrumentation

Description

The PE71S6172 is a Transfer Electromechanical Relay Switch that operates from DC to 12.4 GHz and has a rating of 50 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 80 dB min, with +12 Vdc operating voltage and performance is guaranteed over -25°C to +65°C. The package interface uses solder terminals and N Female connectors.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

Transfer, 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		12.4	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		320		mA
VSWR			1.45:1	
Insertion Loss			0.4	dB
Isolation	60			dB
Input Power (CW)			50	Watts
(at 12.4 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 Latching Switch DC to 12.4 GHz, N, 50 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes PE71S6172

ISO 9001 : 2008 Registered







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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 4	4 to 8	8 to 12.4			GHz
1.2:1	1.3:1	1.45:1			
0.2	0.3	0.4			dB
80	70	60			dB
	DC to 4 1.2:1 0.2	DC to 4 4 to 8 1.2:1 1.3:1 0.2 0.3	DC to 4 4 to 8 8 to 12.4 1.2:1 1.3:1 1.45:1 0.2 0.3 0.4	DC to 4 4 to 8 8 to 12.4 1.2:1 1.3:1 1.45:1 0.2 0.3 0.4	DC to 4 4 to 8 8 to 12.4 1.2:1 1.3:1 1.45:1 0.2 0.3 0.4

2.06 in [52.32 mm]

0.875 lbs [396.89 q]

Connectorized Module 1,000,000 Cycles

Beryllium Copper, Gold

Passivated Stainless Steel

2 in [50.8 mm] 2 in [50.8 mm]

Aluminum

20 ms Max

N Female

Solder Pin

Mechanical Specifications

Size

Lenath

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

ESD Sensitivity

-25 to +65 deg C

ESD Sensitive Material. Transport material in Approved

ESD bags. Handle in approved ESD Workstation.

Operating Range

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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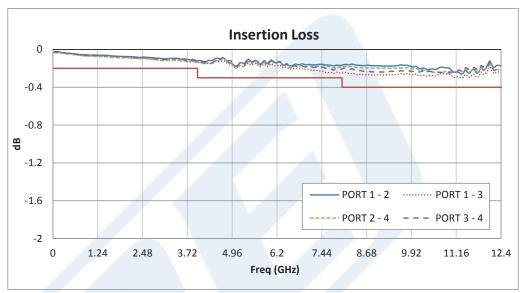


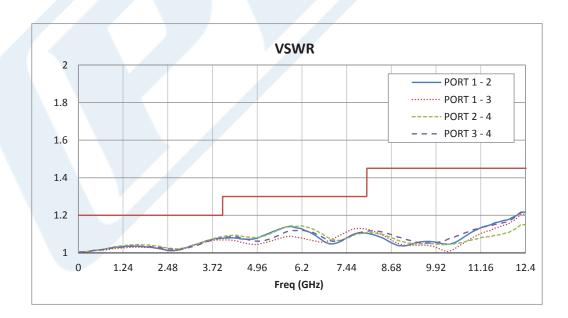


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Typical Performance Data





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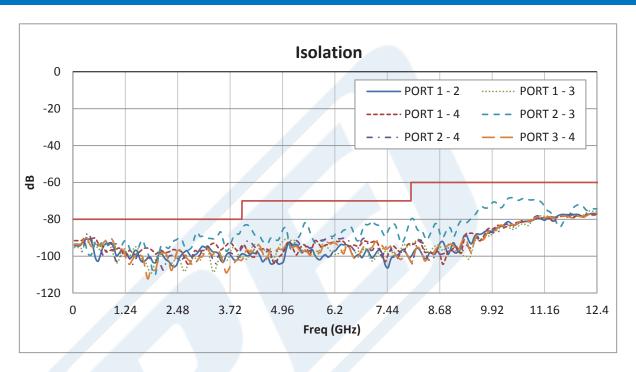






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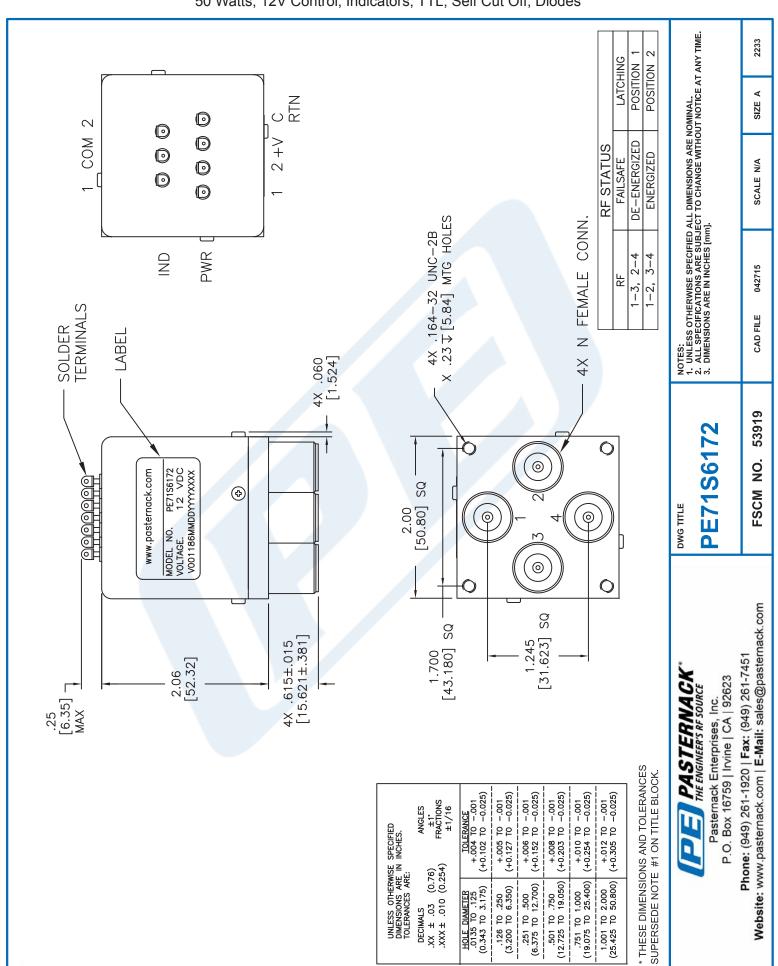
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PE71S6172 CAD Drawing

Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 50 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes



PE71S6172 CAD Drawing

Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 50 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes

