

Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 50 Watts, 12V Control



Electromechanical Relay Switches Technical Data Sheet

PE71S6166

Features

- Transfer Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Failsafe Actuator

- 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 PE71S6166 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 Failsafe Actuator 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

Transfer, Reflective

Failsafe

Break Before Make

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		540		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 Failsafe Switch DC to 12.4 GHz, N, 50 Watts, 12V Control PE71S6166





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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12.4			GHz
VSWR, Max	1.2:1	1.3:1	1.45:1			
Insertion Loss, Max	0.2	0.3	0.4			dB
Isolation, Min	80	70	60			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

Temperature

Operating Range

ESD Sensitivity

2.06 in [52.32 mm] 2 in [50.8 mm] 2 in [50.8 mm]

0.875 lbs [396.89 q]

Aluminum

Connectorized Module

1,000,000 Cycles

50 ms Max

N Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-25 to +65 deg C

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



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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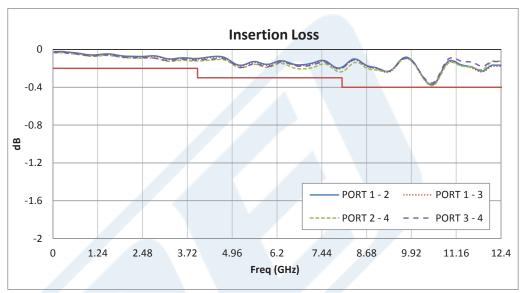
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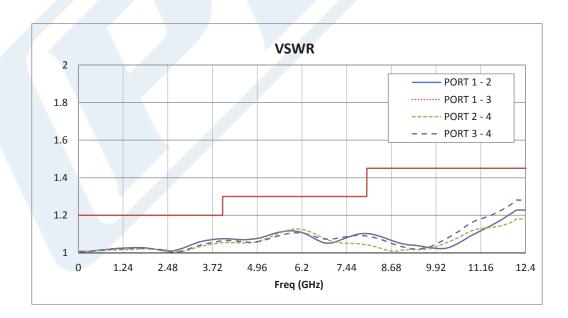


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Typical Performance Data





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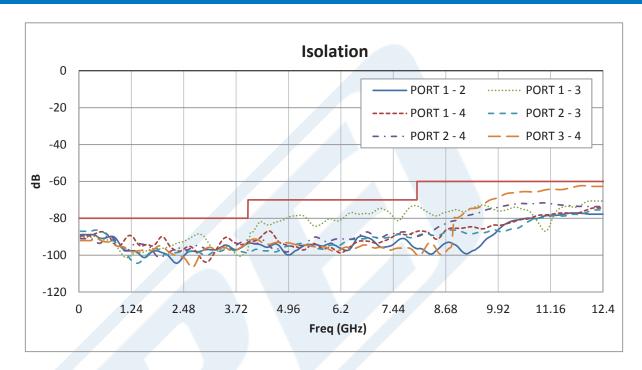


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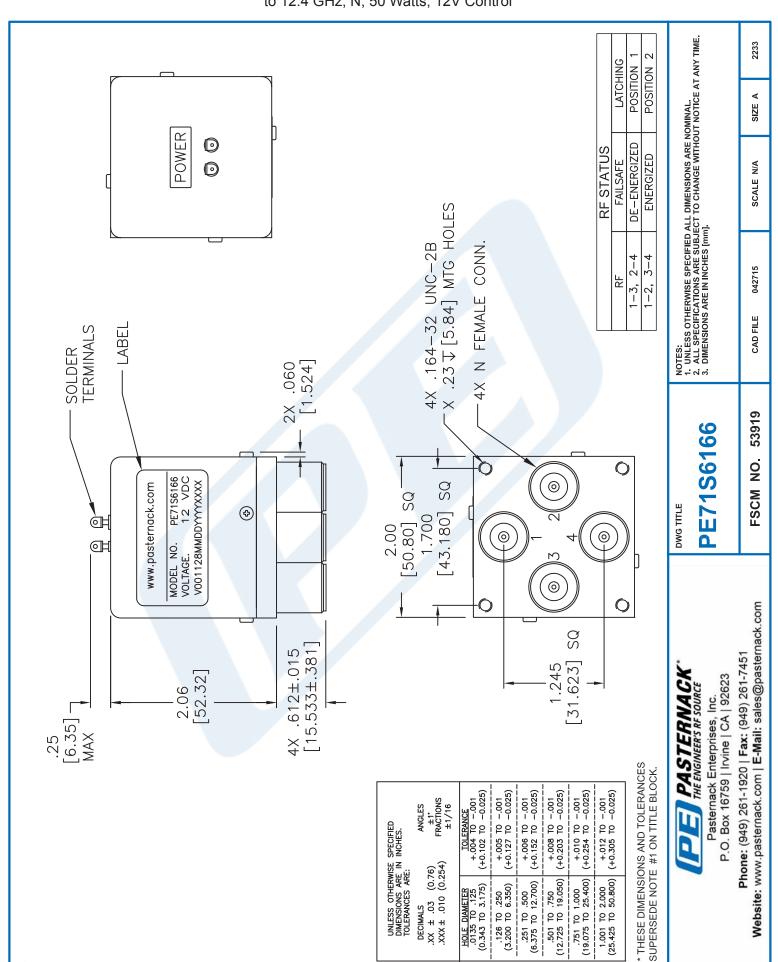
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PE71S6166 CAD Drawing

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