

# SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Indicators, TTL, Diodes



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

PE71S6161

#### **Features**

- Single Pole Double Throw Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Failsafe Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes
- · Insertion Loss 0.6 dB max
- Isolation 60 dB min
- 160 Watts Avg Power Max
- Switching Sequence Break Before Make

#### **Applications**

- Test & Measurement
- · Communications System
- Instrumentation

#### Description

The PE71S6161 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 12.4 GHz and has a rating of 160 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 0.2 dB max and Isolation from 80 dB min, with +28 Vdc operating voltage and performance is guaranteed over -55°C to +85°C. The package interface uses solder terminals and N Female connectors.

#### **Electrical Specifications**

Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

SPDT, 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		12.4	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Volts		130		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW)			160	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: SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Indicators, TTL, Diodes PE71S6161

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 2	2 to 4	4 to 12.4			GHz
VSWR, Max	1.15:1	1.2:1	1.6:1			
Insertion Loss, Max	0.2	0.25	0.6			dB
Isolation, Min	80	80	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** 

2.2 in [55.88 mm] 2.46 in [62.48 mm]

0.9 in [22.86 mm]

0.53 lbs [240.4 g] Aluminum

Connectorized Module

1,000,000 Cycles

50 ms Max

N Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-55 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-DTL-3928

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

#### **Plotted and Other Data**

Notes:

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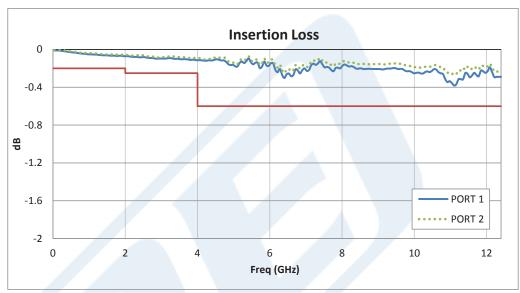


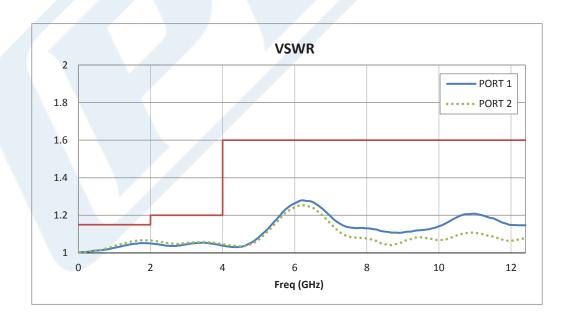


## **Electromechanical Relay Switches Technical Data**

#### PE71S6161

#### **Typical Performance Data**





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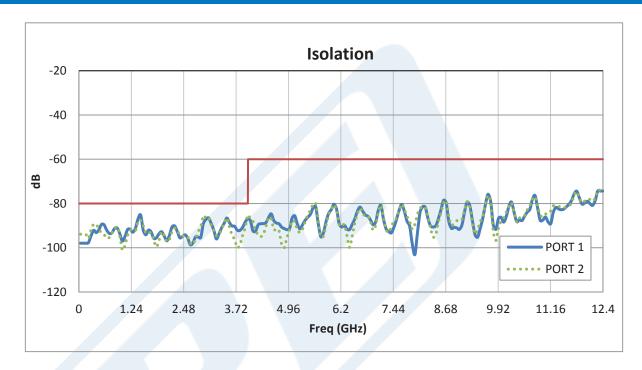


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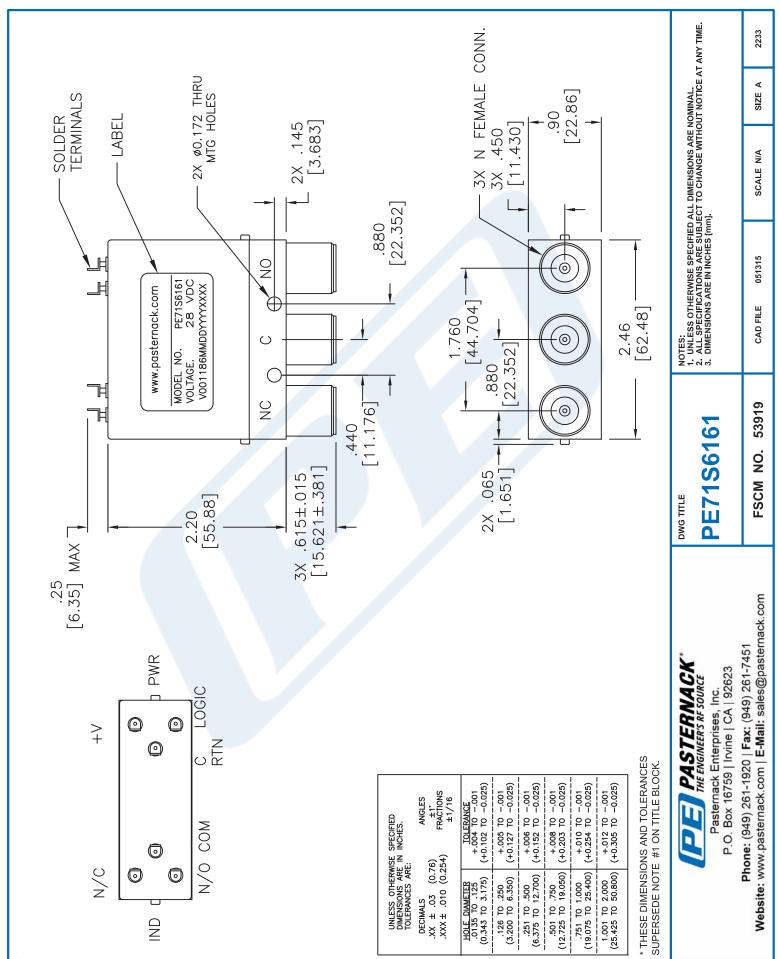
http://www.pasternack.com/n-spdt-electromechanical-relay-switch-12.4-ghz-indicators-failsafe-ttl-logic-pe71s6161-p. aspx

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## PE71S6161 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Indicators, TTL, Diodes



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