





# Electromechanical Relay Switches Technical Data Sheet

PE71S6156

#### **Features**

- Single Pole Double Throw 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 0.5 dB max
- Isolation 60 dB min
- 50 Watts Avg Power Max
- Switching Sequence Break Before Make

## **Applications**

- Test & Measurement
- · Communications System
- Instrumentation

#### Description

The PE71S6156 is a Single Pole Double Throw 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 -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 Latching Break Before Make Indicators, TTL Logic, Diodes, Self Cut Off 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		200		mA	
VSWR			1.5:1		
Insertion Loss			0.5	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: SPDT Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 50 Watts, 12V Control, Indicators, TTL, Diodes, Self Cut Off PE71S6156

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

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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	1.5:1			
Insertion Loss, Max	0.2	0.25	0.5			dB
Isolation, Min	80	80	60			dB

#### **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

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

20 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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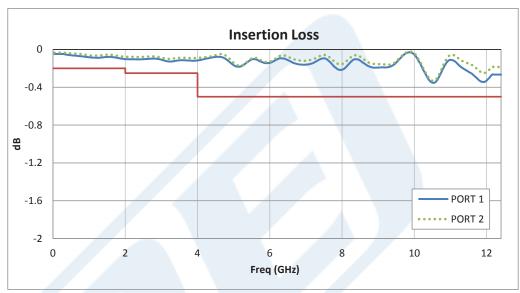


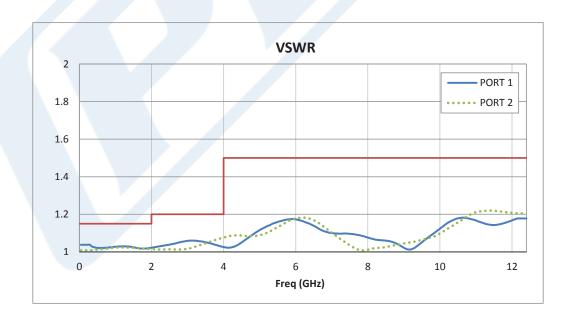
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### PE71S6156

#### **Typical Performance Data**





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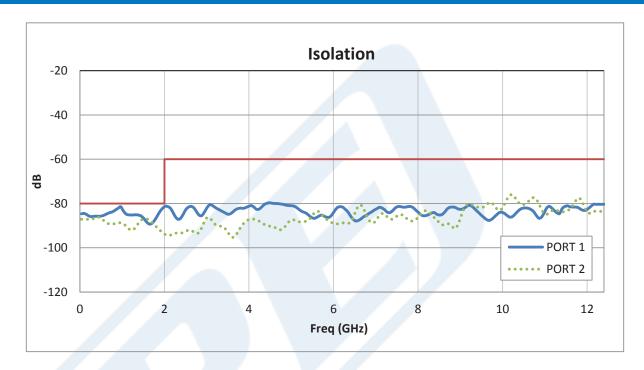




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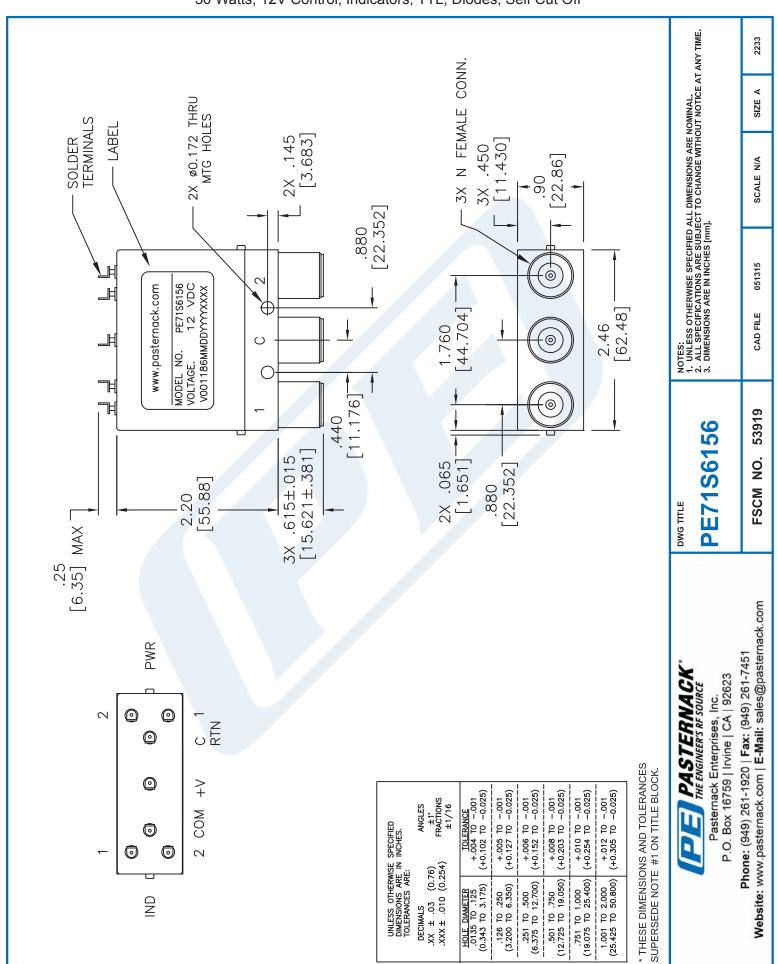
URL: http://www.pasternack.com/n-spdt-electromechanical-relay-switch-12.4-ghz-indicators-latching-ttl-logic-pe71s6156-p. aspx

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# PE71S6156 CAD Drawing

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



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

