

SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control



# Electromechanical Relay Switches Technical Data Sheet

## PE71S6301

#### Features

- Single Pole Four Throw Terminated Relay Switch
- DC to 22 GHz Frequency Range
- 1M Cycle Min Operating Life
- Normally Open Actuator

#### **Applications**

- Test & Measurement
- Communications System
- Instrumentation

Insertion Loss 0.6 dB max

20 Watts Avg Power Max

Switching Sequence Break Before Make

Isolation 60 dB min

#### Description

The PE71S6301 is a Single Pole Four Throw Terminated Electromechanical Relay Switch that operates from DC to 22 GHz and has a rating of 20 Watts input power (CW) in a Break Before Make condition. The design features a Normally Open Actuator with Internal Terminations and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 75 dB min, with +12 Vdc operating voltage. Performance is guaranteed over -25°C to +65°C and the switch assembly is RoHS compliant. The package interface uses solder terminals and SMA Female connectors.

#### Electrical Specifications

Switch Type Actuator Type Switching Sequence	SP4T, Absorptive Normally Open Break Before Make			
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		380		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW)			20	Watts
(at 22 GHz)				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control PE71S6301

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#### Performance by Frequency

Description	F1	F2	<b>F</b> 3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12	12 to 18	18 to 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.3	0.35	0.4	0.5	0.6	dB
Isolation, Min	75	70	65	60	60	dB

2.13 in [54.1 mm]

2.13 in [54.1 mm]

2.08 in [52.83 mm]

0.625 lbs [283.5 g]

Connectorized Module 1,000,000 Cycles

Beryllium Copper, Gold Passivated Stainless Steel

Aluminum

15 ms Max

**SMA** Female

Solder Pin

-25 to +65 deg C

ESD Sensitive Material. Transport material in Approved

ESD bags. Handle in approved ESD Workstation.

#### **Mechanical Specifications**

Size Length Width/Diameter Height Weight Body Material and

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



Environmental Specification Notes: Designed to meet MIL-DTL-3928

Compliance Certifications (visit www.Pasternack.com for current document) RoHS Compliant

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

Notes:

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## **Electromechanical Relay Switches Technical Data**

**Typical Performance Data** 

0.0

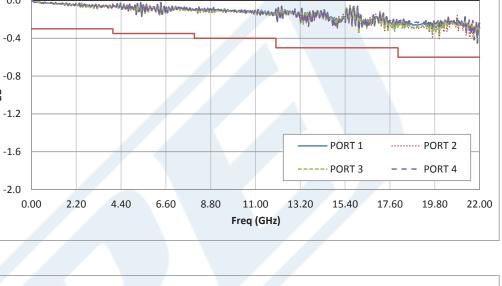
dB

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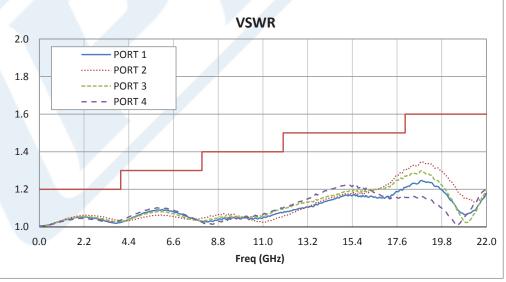
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**Insertion Loss** 

MAAN





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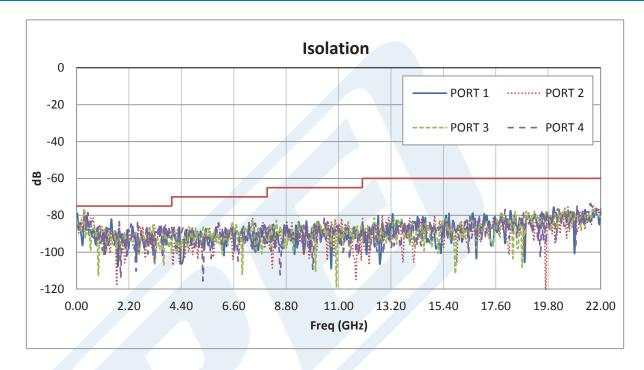




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URL: http://www.pasternack.com/sma-sp4t-electromechanical-relay-switch-22-ghz-pe71s6301-p.aspx

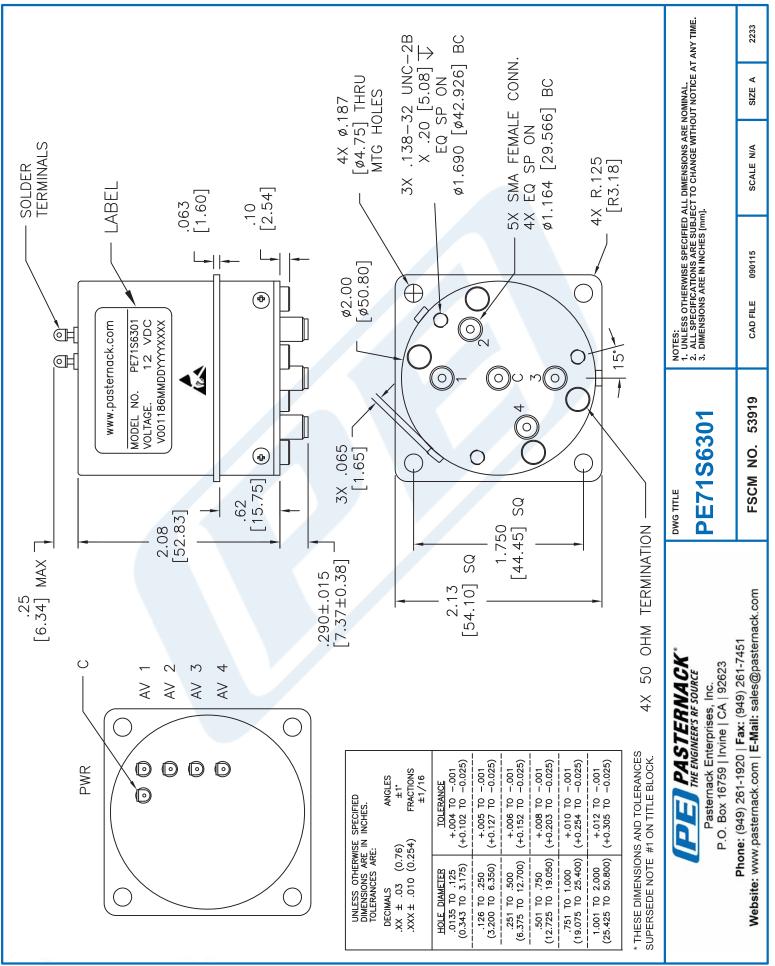
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PE71S6301 CAD Drawing SP4T Electromechanical Relay Normally Open Switch

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PE71S6301 CAD Drawing

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