



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

PE71S6127

### **Features**

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

- · Insertion Loss 0.6 dB max
- Isolation 60 dB min
- 20 Watts Avg Power Max
- · Switching Sequence Break Before Make

### **Applications**

- · Test & Measurement
- · Communications System
- Instrumentation

#### Description

The PE71S6127 is a Single Pole Four Throw 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 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 +28 Vdc operating voltage. Performance is guaranteed over -55°C to +85°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, Reflective Normally Open Break Before Make

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Volts		135		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, 28V Control PE71S6127

ISO 9001 : 2008 Registered





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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	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

### **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

1.75 in [44.45 mm]

1.75 in [44.45 mm]

1.75 in [44.45 mm]

0.307 lbs [139.25 g]

Aluminum

Connectorized Module

1,000,000 Cycles

15 ms Max

**SMA 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) RoHS Compliant

Plotted and Other Data

Notes:

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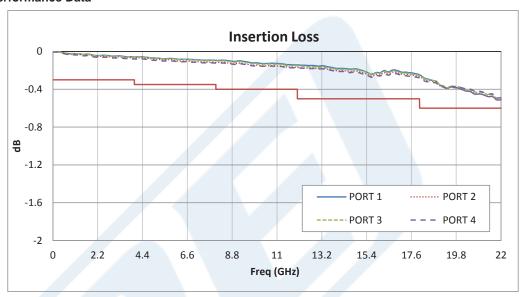


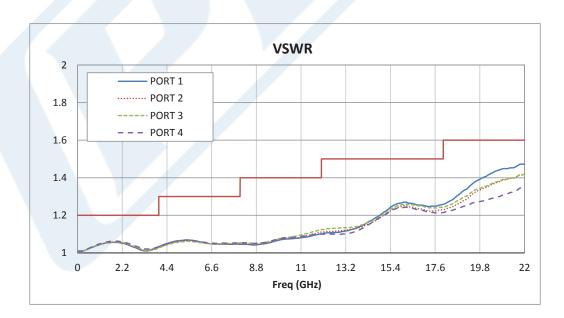


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#### **Typical Performance Data**





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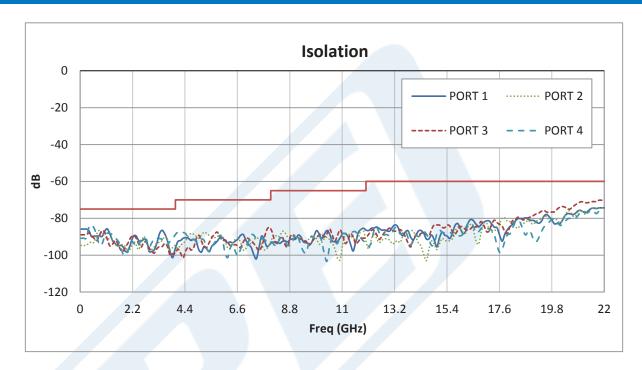






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SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 28V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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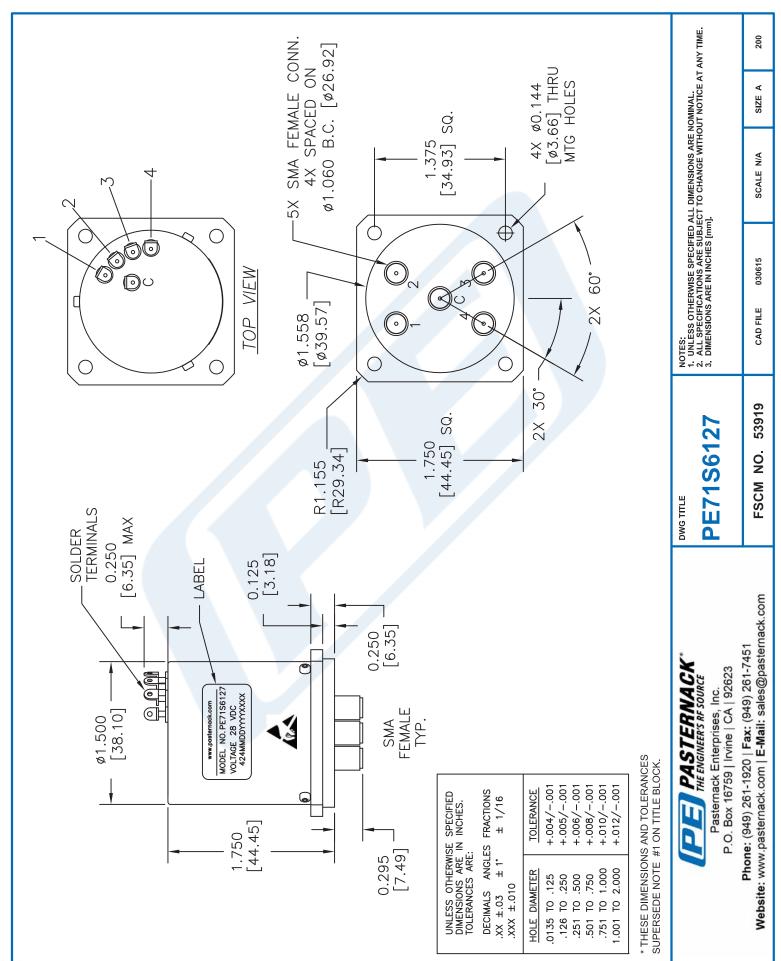
URL: http://www.pasternack.com/sma-sp4t-electromechanical-relay-switch-22-ghz-normally-open-pe71s6127-p.aspx

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## PE71S6127 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 28V Control



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