



## SP4T Electromechanical Relay Normally Open Switch DC to 40 GHz, 2.92mm, 3 Watts, 28V Control, Indicators, TTL, Diodes

#### Electromechanical Relay Switches Technical Data Sheet

PE71S6137

#### **Features**

- Single Pole Four Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- Normally Open Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes
- Insertion Loss 0.9 dB max
- Isolation 50 dB min
- 3 Watts Avg Power Max
- Switching Sequence Break Before Make

#### **Applications**

- Test & Measurement
- · Communications System
- Instrumentation
- · Suitable for Aircraft

#### **Description**

The PE71S6137 is a Single Pole Four Throw Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 3 Watts input power (CW) in a Break Before Make condition. The design features a Normally Open 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 70 dB min, with +28 Vdc operating voltage and performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92mm Female connectors.

#### **Electrical Specifications**

Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

SP4T, Reflective Normally Open 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		40	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Current @ 28 Volts			200	mA
VSWR			2:1	
Insertion Loss			0.9	dB
Isolation	50			dB
Input Power (CW)			3	Watts
(at 40 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 40 GHz, 2.92mm, 3 Watts, 28V Control, Indicators, TTL, Diodes PE71S6137

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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#### Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12	12 to 18	18 to 26.5	26.5 to 40	GHz
1.3:1	1.4:1	1.5:1	1.7:1	2:1	
0.2	0.4	0.5	0.7	0.9	dB
70	60	60	55	50	dB
	DC to 6 1.3:1 0.2	DC to 6 6 to 12 1.3:1 1.4:1 0.2 0.4	DC to 6     6 to 12     12 to 18       1.3:1     1.4:1     1.5:1       0.2     0.4     0.5	DC to 6         6 to 12         12 to 18         18 to 26.5           1.3:1         1.4:1         1.5:1         1.7:1           0.2         0.4         0.5         0.7	DC to 6     6 to 12     12 to 18     18 to 26.5     26.5 to 40       1.3:1     1.4:1     1.5:1     1.7:1     2:1       0.2     0.4     0.5     0.7     0.9

#### **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

2.25 in [57.15 mm]

1.75 in [44.45 mm]

1.75 in [44.45 mm]

0.254 lbs [115.21 q]

Aluminum

Connectorized Module

1,000,000 Cycles

15 ms Max

2.92mm Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-35 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-E-5400 and MIL-S-3928

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

Not RoHS Compliant

#### Plotted and Other Data

Notes:

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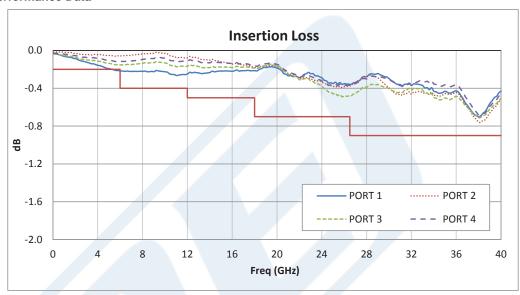


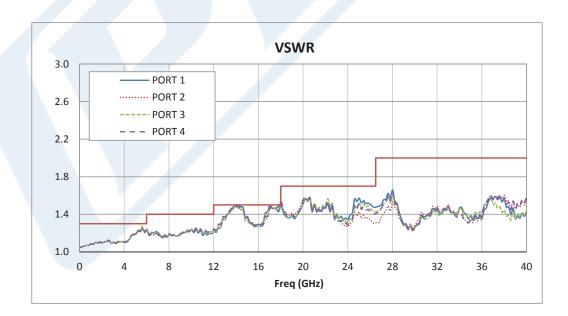
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#### **Typical Performance Data**





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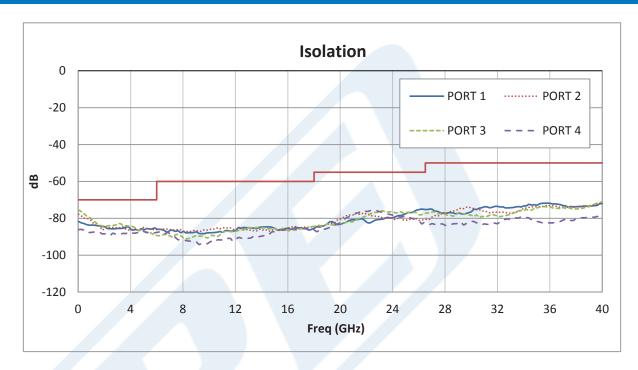


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SP4T Electromechanical Relay Normally Open Switch DC to 40 GHz, 2.92mm, 3 Watts, 28V Control, Indicators, TTL, Diodes from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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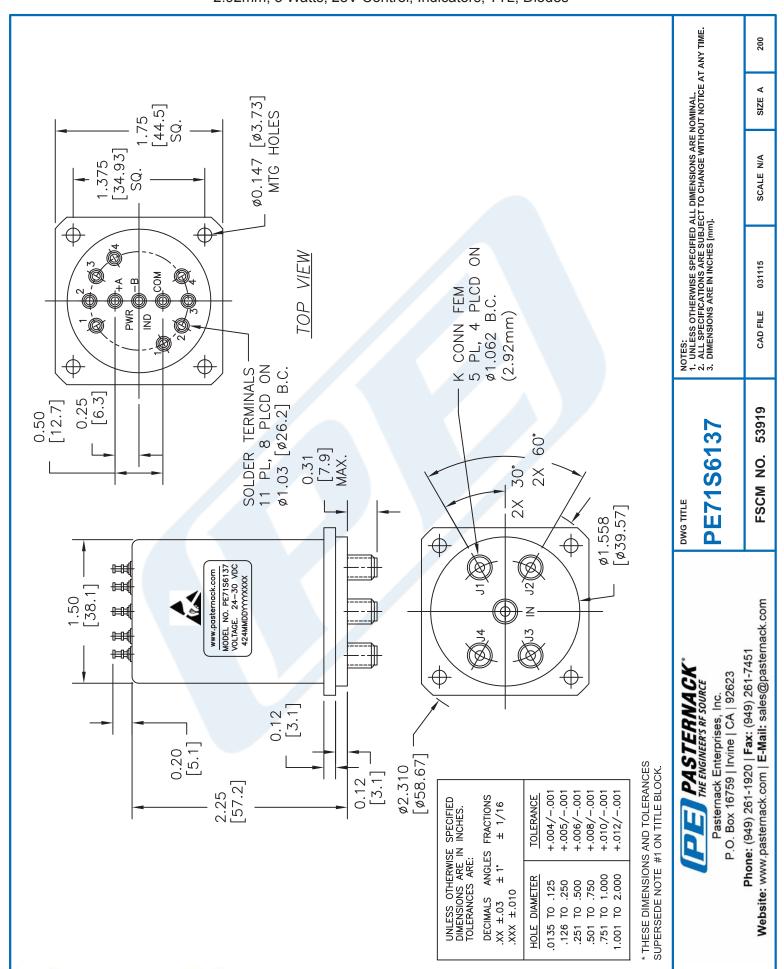
URL: http://www.pasternack.com/2.92mm-sp4t-electromechanical-relay-switch-40-ghz-normally-open-indicators-ttl-logic-pe71s6137-p.aspx

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#### PE71S6137 CAD Drawing

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