



## SPDT Electromechanical Relay Latching Switch, DC to 50 GHz, 28V, 2.4mm

### Electromechanical Relay Switches Technical Data Sheet

PE71S6330

#### Features

- Single Pole Double Throw (SPDT) Relay Switch
- DC to 50 GHz Frequency Range
- 2M Cycle Operating Life Min
- Latching Actuator
- Insertion Loss 0.3 dB typ
- Isolation 90 dB typ
- 80 Watts Avg Power Max
- Switching Sequence Break Before Make

#### Applications

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

#### Description

The PE71S6330 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 50 GHz and can handle up to 80 Watts of CW input power in a Break Before Make condition. The design features a Latching Actuator and is rated for 2M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -25°C to +70°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and 2.4mm Female connectors.

#### Electrical Specifications

Switch Type	SPDT
Actuator Type	Latching
Switching Sequence	Break Before Make
Polarity	Negative Common

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Current @ 28 Volts		80		mA
Insertion Loss			1.1	dB
Input Power (CW)			80	Watts
Switching Time			10	ms Max

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 50 GHz, 28V, 2.4mm PE71S6330](#)



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### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 to 18	18 to 26.5	26.5 to 50	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	1.9:1	
Insertion Loss, Max	0.3	0.4	0.5	0.7	1.1	dB
Isolation, Min	70	60	60	55	50	dB
Input Power, Max (CW)	80	60	50	20	5	Watts

### Mechanical Specifications

#### Size

Length	1.5 in [38.1 mm]
Width/Diameter	1.5 in [38.1 mm]
Height	0.5 in [12.7 mm]
Weight	0.1291 lbs [58.56 g]
Body Material and Plating	Aluminum, Nickel
Package Type	Connectorized
Operating Life	2,000,000 Cycles

#### Connectors

RF Connector Type	2.4mm Female
RF Connector Contact Material and Plating	Beryllium Copper, Gold
RF Connector Body Material and Plating	Passivated Stainless Steel
Control Connector	Solder Pin

### Environmental Specifications

#### Temperature

Operating Range	-25 to +70 deg C
Storage Range	-40 to +85 deg C

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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 50 GHz, 28V, 2.4mm PE71S6330](#)

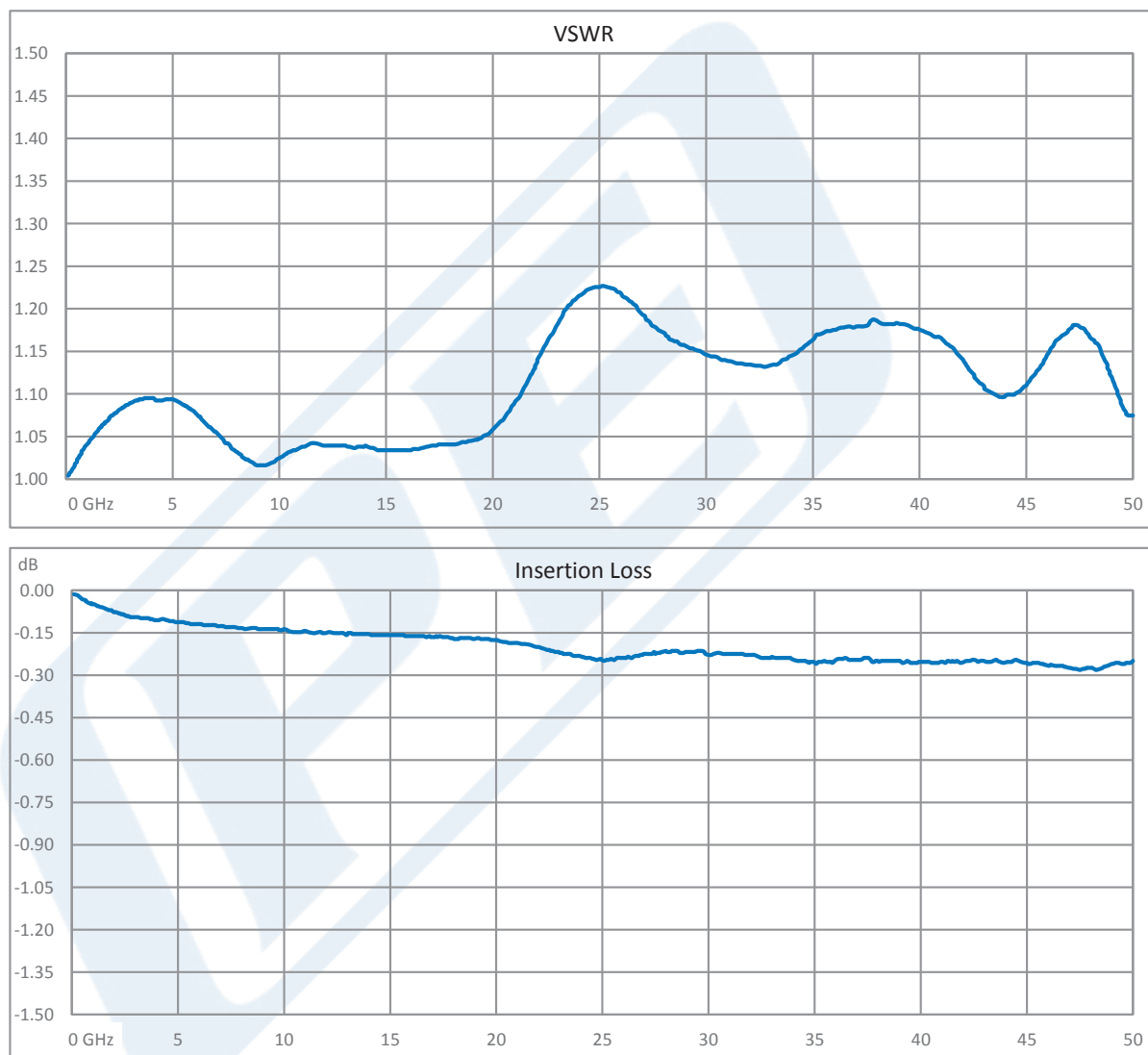


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### Typical Performance Data



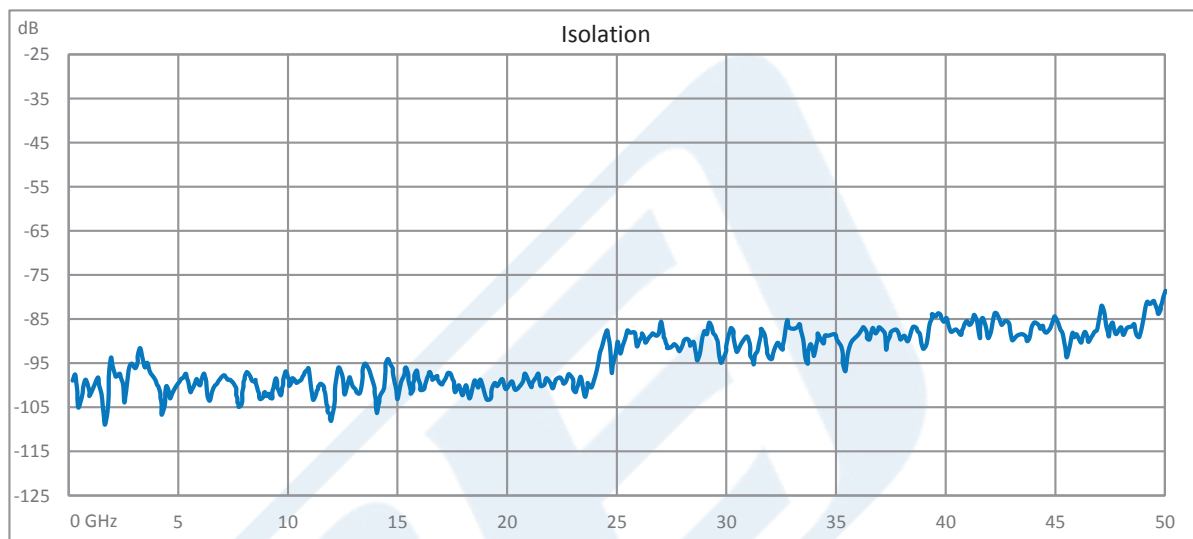
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SPDT Electromechanical Relay Latching Switch, DC to 50 GHz, 28V, 2.4mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

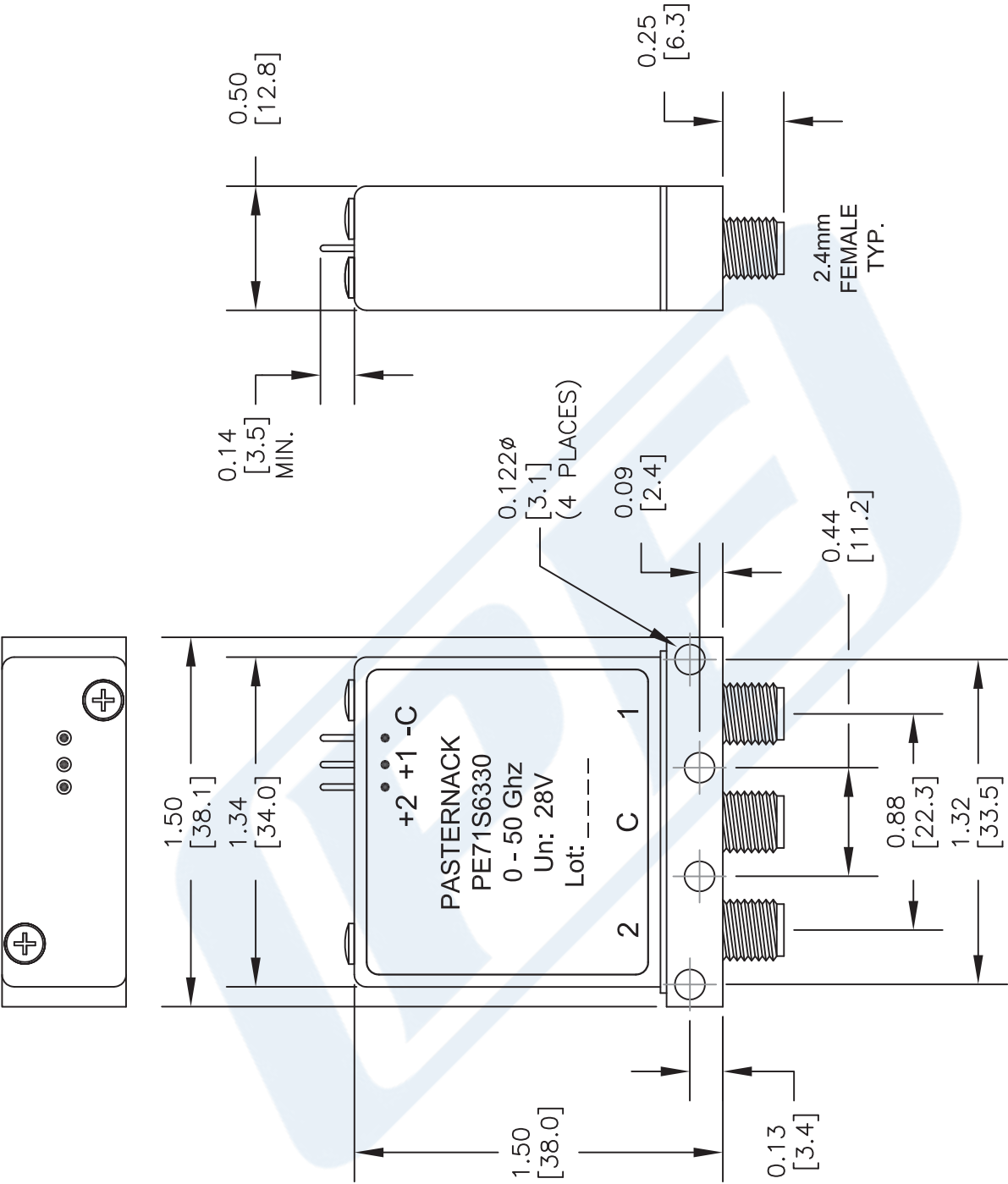
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SPDT Electromechanical Relay Latching Switch, DC to 50 GHz, 28V, 2.4mm PE71S6330](https://www.pasternack.com/2.4mm-spd-electromechanical-relay-latching-switch-pe71s6330-p.aspx)

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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE71S6330 CAD Drawing

SPDT Electromechanical Relay Latching Switch, DC to 50 GHz, 28V, 2.4mm



NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE  
**PE71S6330**

CAGE CODE 53919

CAD FILE 022717

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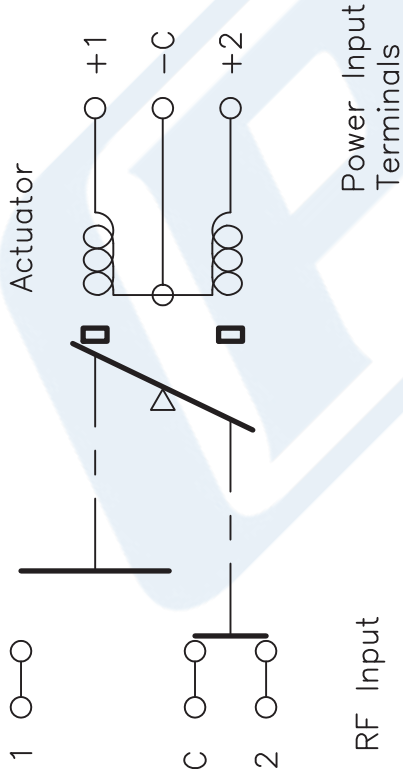
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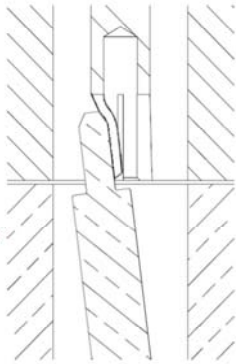
PE71S6330 CAD Drawing

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Voltage	RF Continuity
-C +1	C ↔ 1
-C +2	C ↔ 2

**WARNING**  
Sensitive connector : To avoid irreversible damage during any connexions, ensure that the center contact is aligned with the female socket



STANDARD TOLERANCES DECIMAL ±0.02
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\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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