

### Absorptive SPDT PIN Diode Switch Operating From 5 MHz to 3 GHz Up to 1 Watt (+30 dBm) and SMA



#### PIN Diode Switches Technical Data Sheet

PE71S2036

#### **Features**

- SPDT PIN Diode Switch
- Terminated
- 5 to 3000 MHz Bandwidth
- Insertion loss: 2.5 dB max
- · Isolation: 60 dB min

### **Applications**

- Electronic Warfare
- Test & Measurement

- 50 Ohms
- Switching Speed: 10 microseconds
- DC voltage: +24 Vdc
- SMA female connectors
- TTL Control Logic

- · Military and Wireless **Communications Systems**
- Military & Space
- Radar

#### **Description**

The PE71S2036 is a single pole double throw (SPDT) terminated PIN diode switch that operates over the frequency range of 5 MHz to 3000 MHz. The 50 ohm design supports TTL control logic and is rated up to 1 watt average RF input power. Typical performance includes 2.5 dB insertion loss and greater than 60 dB isolation. Switching speed is 10 microseconds with 1.5:1 typical VSWR and an operating voltage of +24 Vdc with 50 mA nominal current. The rugged package design supports SMA Female RF input/output connectors. The Switch design is highly reliable with an operational temperature of 0°C to +70°C.

#### **Electrical Specifications**

TTL Control

Off/Isolation: "0" 0 to 0.8 V On/Low Loss: "1" 2 to 5 V

Minimum	Typical	Maximum	Units
0.005		3	GHz
	50		Ohms
	1.3:1	1.5:1	
	2.5	3.5	dB
		0.05	dB
		10	μs
		1	Watts
	24		Vdc
	50		mA
0		+70	deg C
	0.005	0.005 50 1.3:1 2.5 24 50	0.005 3   50 1.3:1 1.5:1   2.5 3.5   0.05   10   1   24   50

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.005 to 1	1 to 2	2 to 3			GHz
Isolation, Min	80	70	60			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Absorptive SPDT PIN Diode Switch Operating From 5 MHz to 3 GHz Up to 1 Watt (+30 dBm) and SMA PE71S2036

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#### Mechanical Specifications

Size

Design RF Connector Absorptive, SPDT SMA Female

#### **Environmental Specifications**

**Temperature** 

Operating Range Storage Range

**ESD Sensitivity** 

0 to +70 deg C -55 to +90 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle only in ESD Workstation.

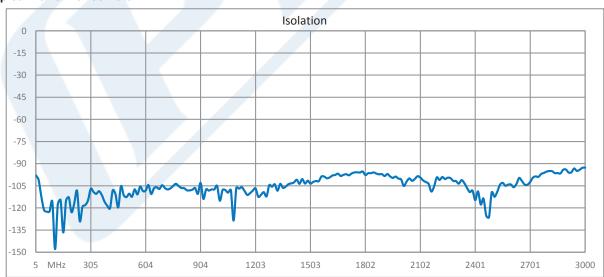


Compliance Certifications (see product page for current document)

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

Notes:

#### **Typical Performance Data**



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Absorptive SPDT PIN Diode Switch Operating From 5 MHz to 3 GHz Up to 1 Watt (+30 dBm) and SMA 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.

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URL: https://www.pasternack.com/absorptive-spdt-pin-diode-switch-3-ghz-30-dbm-sma-pe71s2036-p.aspx

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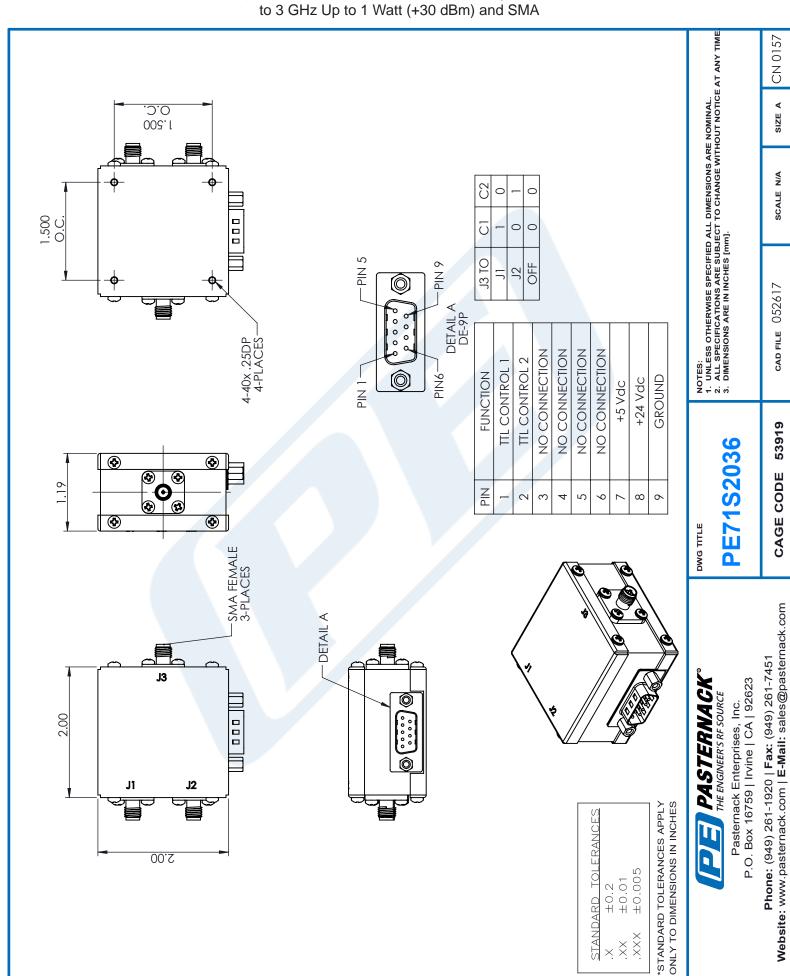
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### PE71S2036 CAD Drawing

Absorptive SPDT PIN Diode Switch Operating From 5 MHz to 3 GHz Up to 1 Watt (+30 dBm) and SMA



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