



## **PIN Diode Switches Technical Data Sheet**

PE71S2041

#### **Features**

- SPDT PIN Diode Switch
- Terminated
- 800 to 2700 MHz Bandwidth
- Insertion loss: 1.2 dB max
- · Isolation: 60 dB min

- 50 Ohms
- Switching Speed: 10 microseconds
- DC voltage: +15 Vdc
- SMA female connectors
- TTL Control Logic

## **Applications**

- Electronic Warfare
- Test & Measurement
- Military and Wireless Communications Systems
- Military & Space
- Radar

#### Description

The PE71S2041 is a single pole double throw (SPDT) terminated PIN diode switch that operates over the frequency range of 800 MHz to 2700 MHz. The 50 ohm design supports TTL control logic and is rated up to 100 watt average RF input power. Typical performance includes 1.2 dB insertion loss and greater than 60 dB isolation. Switching speed is 40 microseconds with 1.4:1 typical VSWR and an operating voltage of +15 Vdc with 80 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 V On/Low Loss: "1"

Minimum	Typical	Maximum	Units
0.8		2.7	GHz
	50		Ohms
		1.4:1	
	0.8		dB
	6	10	μs
		100	Watts
		30	Watts
	15		Vdc
	80		mA
0		+70	deg C
	0.8	0.8 50 0.8 6	0.8 2.7   50 1.4:1   0.8 6 10   100 30   15 80

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 800 MHz to 2.7 GHz Up to 100 Watts (+50 dBm) and SMA PE71S2041

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.8 to 2	2 to 2.7				GHz
Insertion Loss, Max	1	1.2				dB
Insertion Loss, Typ	0.6	0.8				dB
Isolation, Min	65	60				dB
Isolation, Typ	75	70				dB

### **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:

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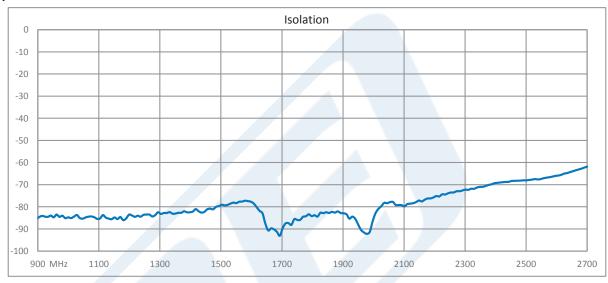


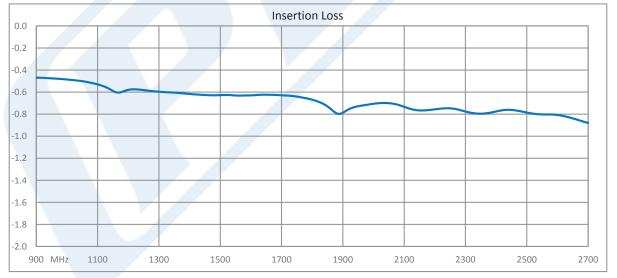


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#### **Typical Performance Data**





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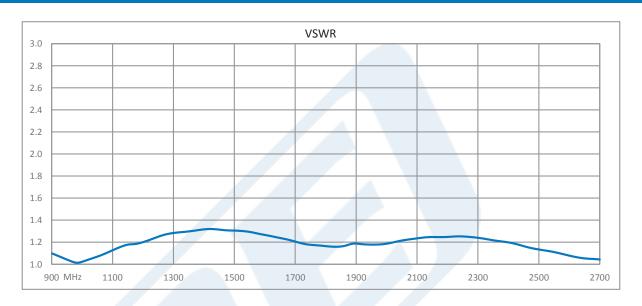
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Absorptive SPDT PIN Diode Switch Operating From 800 MHz to 2.7 GHz Up to 100 Watts (+50 dBm) and SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 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-2.7-ghz-100-watts-sma-pe71s2041-p.aspx

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.

## PE71S2041 CAD Drawing

Absorptive SPDT PIN Diode Switch Operating From 800 MHz to 2.7 GHz Up to 100 Watts (+50 dBm) and SMA

