



PIN Diode Switches Technical Data Sheet

PE71S2040

Features

- SPDT High Power PIN Diode Switch
- 150 watt (CW)
- · Reflective Design
- 20 to 1000 MHz Bandwidth
- Insertion loss: 0.75 dB max
- Isolation: 40 dB min

- 50 Ohms
- Switching Speed: 40 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 PE71S2040 is a single pole double throw (SPDT) PIN diode switch that operates over the frequency range of 20 MHz to 1000 MHz. The 50 ohm design supports TTL control logic and is rated up to 150 watt average RF input power. Typical performance includes 0.75 dB insertion loss and greater than 40 dB isolation. Switching speed is 40 microseconds with 1.4:1 typical VSWR and an operating voltage of +15 Vdc with 250 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"

Description	Minimum	Typical	Maximum	Units
Frequency Range	20		1,000	MHz
Impedance		50		Ohms
VSWR			1.4:1	
Insertion Loss		0.75		dB
Switching Time			40	μs
Input Power (CW)			150	Watts
Positive Operating Voltage		15		Vdc
Current @ 15 Vdc		250		mA
Operating Temperature	0		+70	deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT PIN Diode Switch Operating From 20 MHz to 1,000 MHz Up to 150 Watts (+51.8 dBm) and SMA PE71S2040

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

Description	F1	F2	F3	F4	F5	Units
Frequency Range	20 to 500	500 to 1,000				MHz
Insertion Loss, Max	0.5	0.75				dB
Isolation, Min	50	40				dB

Mechanical Specifications

Size

Design Reflective, SPDT RF Connector SMA Female

Environmental Specifications

Temperature

Operating Range 0 to $+70 \deg C$ Storage Range $-55 \operatorname{to} +90 \deg C$

ESD Sensitivity

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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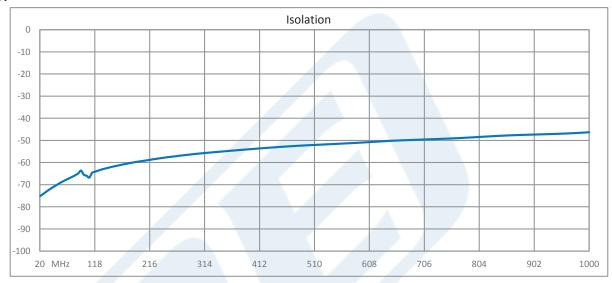




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Typical Performance Data





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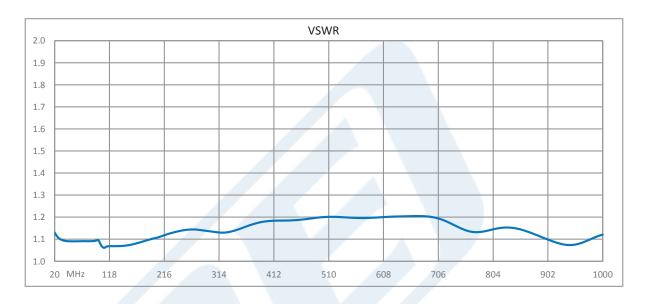
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SPDT PIN Diode Switch Operating From 20 MHz to 1,000 MHz Up to 150 Watts (+51.8 dBm) and SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/spdt-pin-diode-switch-1000-mhz-150-watts-sma-pe71s2040-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.

PE71S2040 CAD Drawing

SPDT PIN Diode Switch Operating From 20 MHz to 1,000 MHz Up to 150 Watts (+51.8 dBm) and SMA

