



PIN Diode Switches Technical Data Sheet

PE71S2046

Features

- SP6T Absorptive Switch
- 100 MHz to 20 GHz
- Insertion Loss 4.2 dB max

- Isolation 65 dB min
- Switching speed 75 nsec max
- Max Operating Power +27 dBm

Applications

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

RF Test Stations

Description

The PE71S2046 is a Single Pole Six Throw (SP6T) Absorptive PIN Diode Switch that operates from 0.1 to 20 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes 4.2 dB max insertion loss, 65 dB min isolation, and 75 nsec max switching speed. The design incorporates TTL-compatible driver circuitry for accurate logic control. Operational temperature range is -55°C to +85°C and dual voltage controls of +5 Vdc and -12 Vdc are required. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.1		20	GHz
Impedance		50		Ohms
VSWR			2:1	
Insertion Loss			4.2	dB
Isolation	65			dB
Switching Time			75	ns
Input Power (CW)			0.5	Watts
Positive Operating Voltage	4.7	5	5.3	V
Negative Operating Voltage	-12	-15	-20	Vdc
Current @ 5 Vdc			240	mA
Current @ -15Vdc			40	mA
Operating Temperature	-55		+85	deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Absorptive SP6T PIN Diode Switch Operating From 100 MHz to 20 GHz Up to 0.5 Watts (+27 dBm) and SMA PE71S2046

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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Mechanical Specifications

Size

Length 1.34 in [34.04 mm] Width 1.34 in [34.04 mm] 0.45 in [11.43 mm] Height Weight 0.093 lbs [42.18 g] Absorptive, SP6T Design RF Connector SMA Female MIL-C-39012

RF Connector Specification TTL Control Connector Solder Pin

Environmental Specifications

Temperature

-55 to +85 deg C Operating Range Storage Range -65 to +125 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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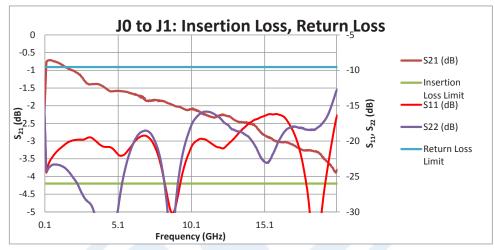


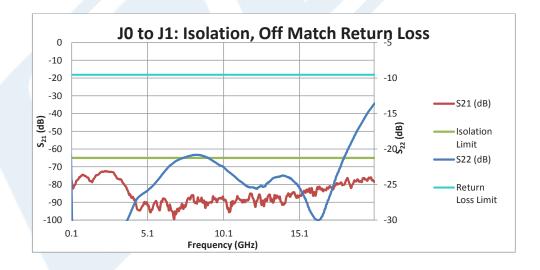


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Typical Performance Data





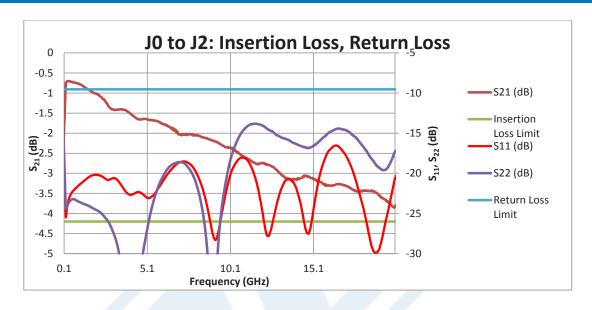
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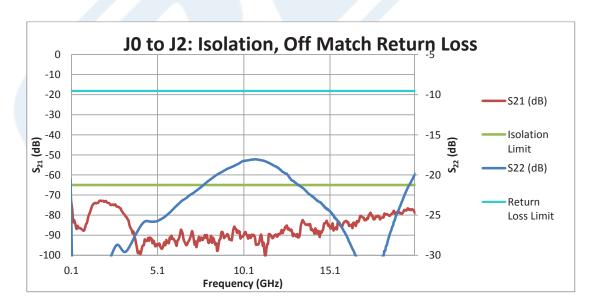




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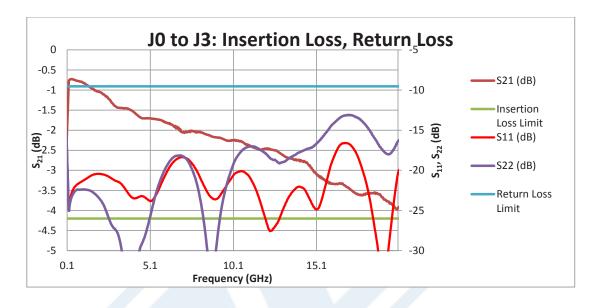
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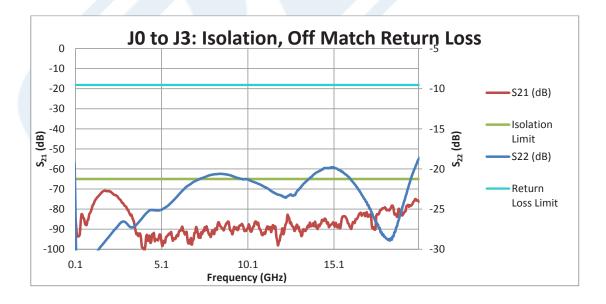




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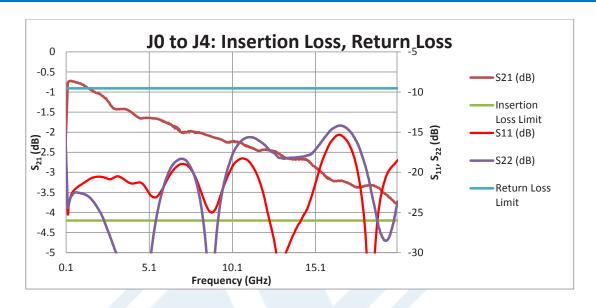
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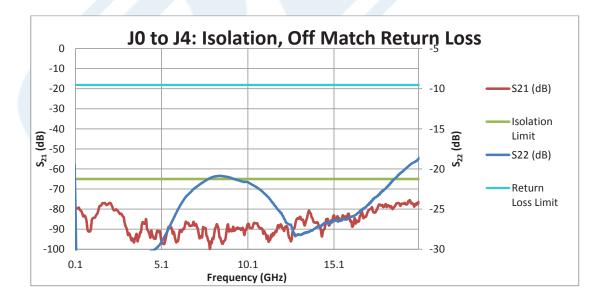




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Absorptive SP6T PIN Diode Switch Operating From 100 MHz to 20 GHz Up to 0.5 Watts (+27 dBm) and SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/absorptive-sp6t-pin-diode-switch-20-ghz-27-dbm-sma-pe71s2046-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.

PE71S2046 CAD Drawing

Absorptive SP6T PIN Diode Switch Operating From 100 MHz to 20 GHz Up to 0.5 Watts (+27 dBm) and SMA

