

PIN Diode Switches Technical Data Sheet

PE71S2033

Features

- SP8T Absorptive Switch
- 100 MHz to 20 GHz
- · Insertion Loss 6 dB max

- Isolation 65 dB min
- Switching speed 100 nsec max
- Max Operating Power +27 dBm

Applications

- Communications Systems
- Electronic Simulators
- Bypass Switch
- Test Equipment

- Radar Systems
- EW Systems

Description

The PE71S2033 is a Single Pole Eight Throw (SP8T) 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 6 dB max insertion loss, 65 dB min isolation, and 100 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			6	dB
Isolation	65			dB
Switching Time			100	ns
Input Power (CW)			0.5	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-12		V
Current @ 5 V		320		mA
Current @ -12 V		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 SP8T PIN Diode Switch Operating From 100 MHz to 20 GHz Up to +27 dBm and SMA PE71S2033

ISO 9001 : 2008 Registered



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Mechanical Specifications

Size

Length Width

Height Weight

Design

RF Connector

RF Connector Specification TTL Control Connector

4 in [101.6 mm] 0.96 in [24.38 mm] 0.35 in [8.89 mm] 0.17 lbs [77.11 g] Absorptive, SP8T SMA Female

MIL-C-39012 Solder Pin

Environmental Specifications

Temperature

Operating Range Storage Range

ESD Sensitivity

-55 to +85 deg C -65 to +125 deg C

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



Compliance Certifications (visit www.Pasternack.com for current document) Not RoHS Compliant

Plotted and Other Data

Notes:

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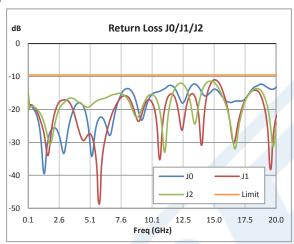


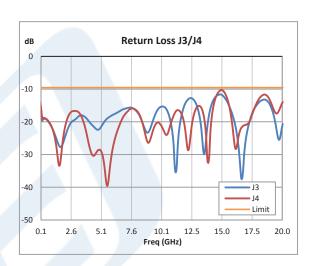


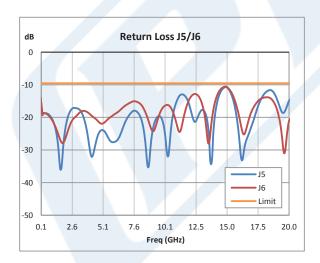
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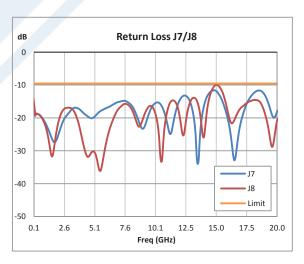
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Typical Performance Data









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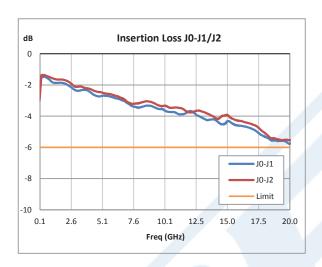


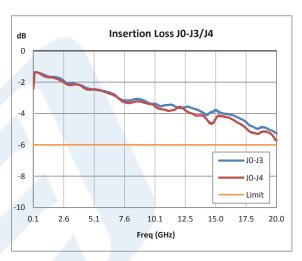


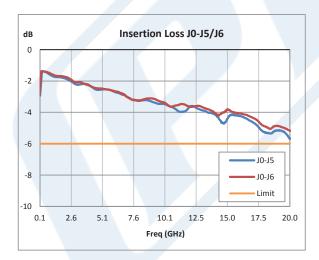


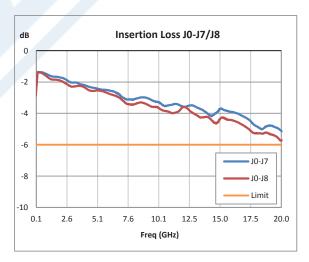
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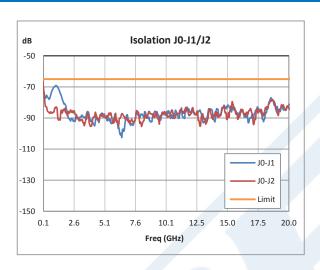


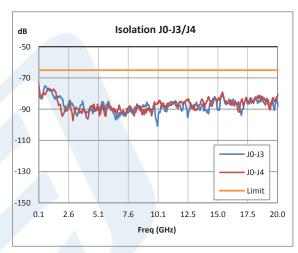


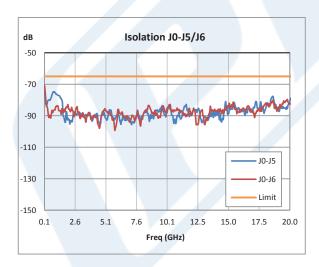


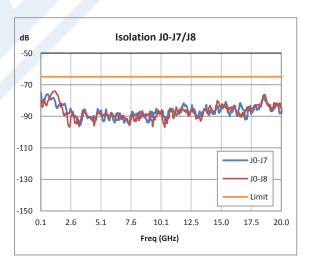
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URL: http://www.pasternack.com/absorptive-sp8t-pin-diode-switch-20-ghz-27-dbm-sma-pe71s2033-p.aspx

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PE71S2033 CAD Drawing

Absorptive SP8T PIN Diode Switch Operating From 100 MHz to 20 GHz Up to +27 dBm and SMA

