

# SPDT PIN Diode Switch Operating From 100 MHz to 67 GHz Up to +27 dBm and 1.85mm



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

PE71S2025

#### **Features**

- SPDT Reflective Switch
- 0.1 GHz to 67 GHz
- Insertion Loss 7.5 dB max

- Isolation 20 dB min
- Power Input +27 dBm CW max

### **Applications**

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

RF Test Stations

#### Description

The PE71S2025 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch that operates from 0.1 to 67 GHz. Electrical performance includes 7.5 dB max insertion loss, -4 dB max return loss, 20 dB min isolation, and 100 nsec max switching speed. The design incorporates TTL-compatible driver circuitry for accurate logic control. Operational temperature range is -30°C to +60°C and dual voltage controls of +5 Vdc and -5 Vdc are required. The package interface uses solder terminals, 1.85mm Female connectors and an SMA Female connector.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.1		67	GHz
Impedance		50		Ohms
Return Loss			-4	dB
Insertion Loss			7.5	dB
Isolation	20			dB
Switching Time			100	ns
Input Power (CW)			0.5	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-5		Vdc
Current @ 5 Vdc		50		mA
Current @ -5 Vdc		50		mA
Operating Temperature	-30		+60	deg C

**Electrical Specification Notes:** 

Specified switching time includes TTL driver delay.

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 100 MHz to 67 GHz Up to +27 dBm and 1.85mm PE71S2025

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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#### **Mechanical Specifications**

Size

Length Width

Height

Weight Design

**RF** Connector

TTL Control Connector

0.6 in [15.24 mm] 0.119 lbs [53.98 g] Reflective, SPDT 1.85mm Female

**SMA Female** 

1.2 in [30.48 mm]

1 in [25.4 mm]

### **Environmental Specifications**

**Temperature** 

Operating Range **ESD Sensitivity** 

-30 to +60 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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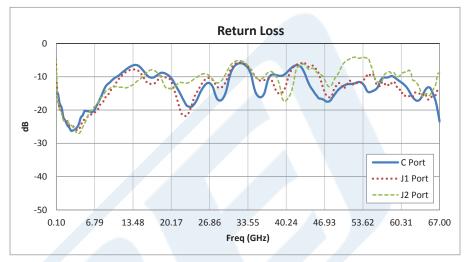
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#### **Typical Performance Data**





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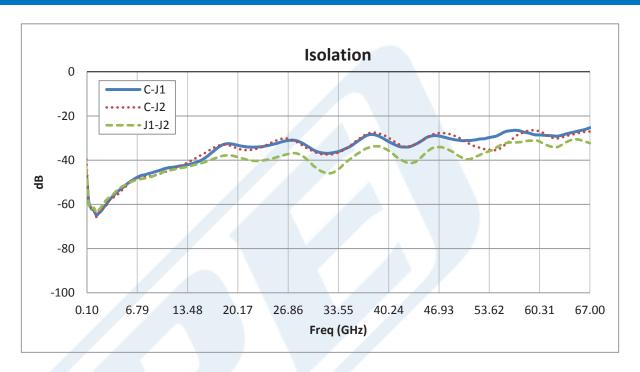


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URL: https://www.pasternack.com/spdt-pin-diode-switch-67-ghz-27-dbm-1.85mm-pe71s2025-p.aspx

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.

PE71S2025 CAD Drawing
SPDT PIN Diode Switch Operating From 100 MHz to 67 GHz Up to +27 dBm and 1.85mm

