



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

PIN Diode Switches Technical Data Sheet

PE71S2026

Features

- SPDT Absorptive Switch
- 0.1 GHz to 67 GHz
- Insertion Loss 10.5 dB max
- Isolation 40 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 PE71S2026 is a Single Pole Double Throw (SPDT) Absorptive PIN Diode Switch that operates over a wide frequency band from 0.1 to 67 GHz. J1 and J2 ports are terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes max. insertion loss of 10.5 dB, max. return loss of -4 dB, min. isolation of 40 dB, and max. switching speed of 100 nsec. TTL-compatible driver circuitry is included for accurate logic control. The design requires dual voltage controls of +5 Vdc and -5 Vdc, with an operational temperature range of -30°C to +60°C. External connectors include 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			10.5	dB
Isolation	40			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

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 100 MHz to 67 GHz Up to +27 dBm and 1.85mm PE71S2026](#)



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Mechanical Specifications

Size

Length	1 in [25.4 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]
Weight	0.12 lbs [54.43 g]
Design	Absorptive, SPDT
RF Connector	1.85mm Female
TTL Control Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	-30 to +60 deg C
ESD Sensitivity	ESD Sensitive Material. Transport material in Approved ESD bags. Handle only in ESD Workstation.

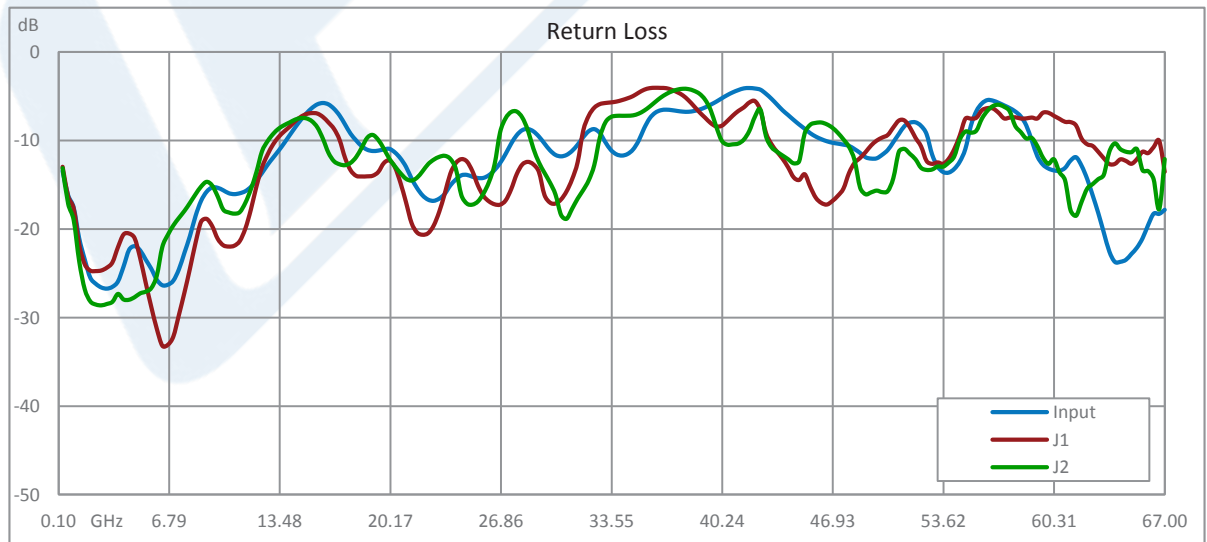


Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



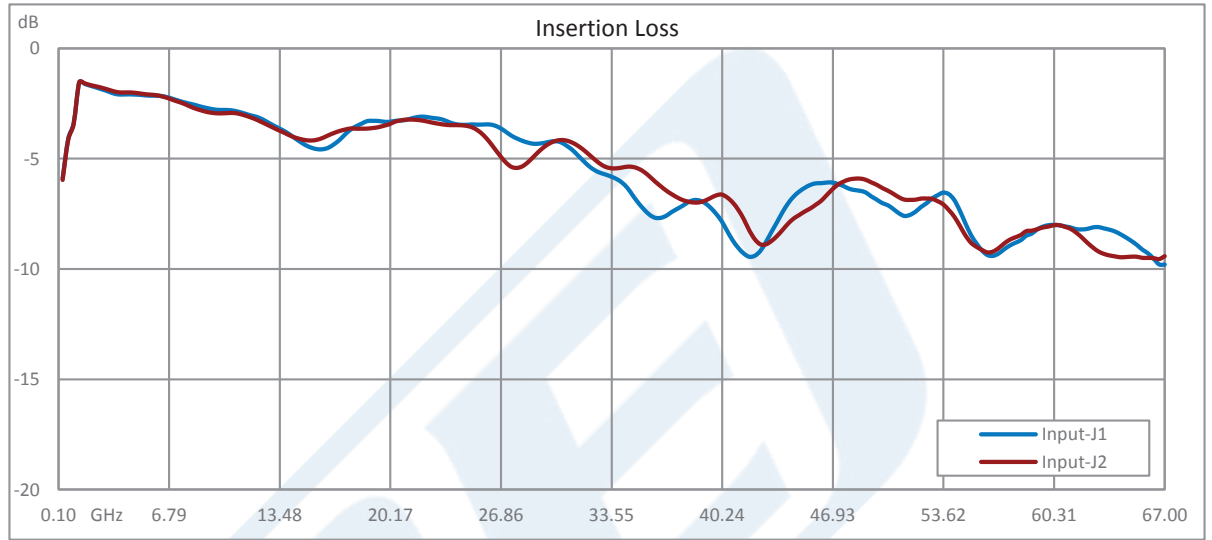
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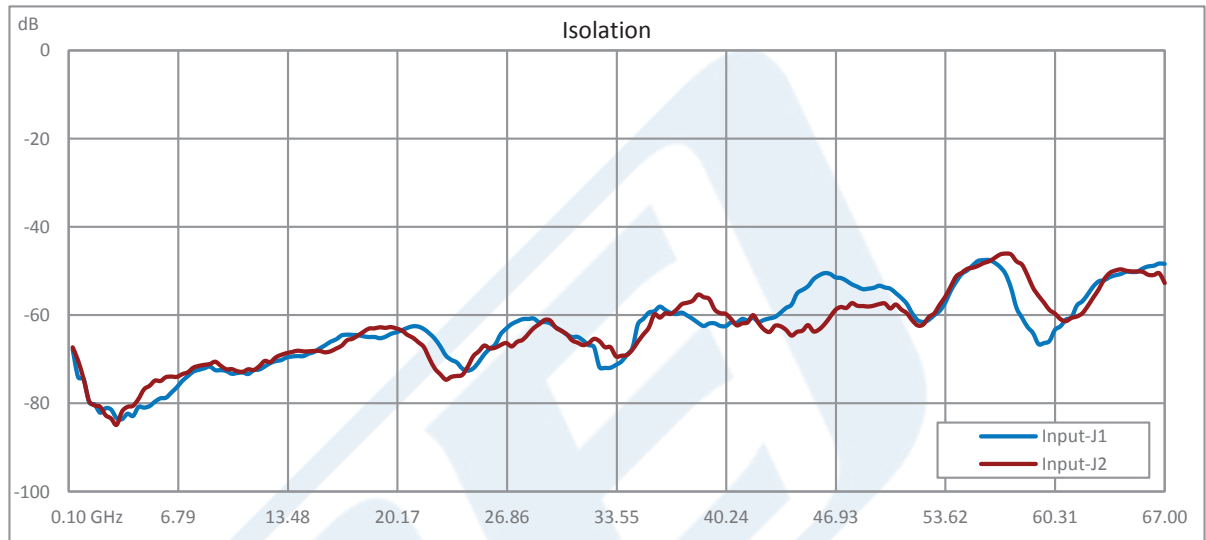
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Absorptive SPDT PIN Diode Switch Operating From 100 MHz to 67 GHz Up to +27 dBm and 1.85mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

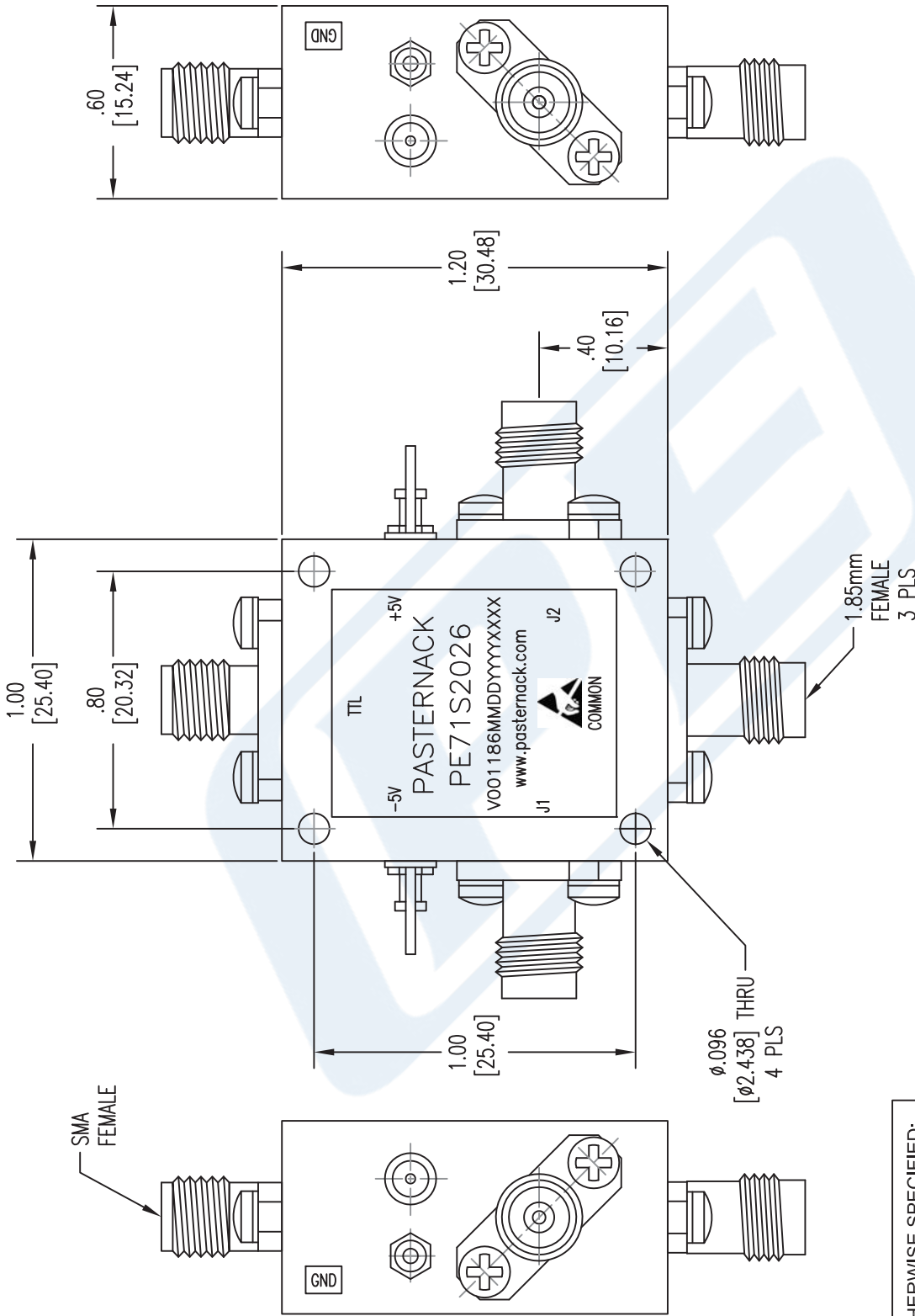
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE71S2026 CAD Drawing

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UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches [mm]
 TOLERANCES ARE: .XX ± .01 [± 2.54]
 .XXX ± .005 [± .127]

* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE
PE71S2026

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CAD FILE 121515 SCALE N/A SIZE A 2233

FSCM NO. 53919

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