



### PIN Diode Switches Technical Data Sheet

PE71S2014

### **Features**

- · SPDT Absorptive Switch
- 0.07 GHz to 40 GHz
- · Insertion Loss 7 dB max

- Isolation 55 dB min
- Switching speed 100 nsec max
- Power Input +27 dBm CW max

## **Applications**

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

#### RF Test Stations

#### Description

The PE71S2014 is a Single Pole Double Throw (SPDT) Absorptive PIN Diode Switch that operates from 0.07 to 40 GHz. J1 and J2 ports are terminated in 50 ohms when switched in the isolation (off) state. Electrical performance includes 7 dB max insertion loss, 55 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 and 2.92mm Female connectors.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.07		40	GHz
Impedance		50		Ohms
Return Loss			-5	dB
Insertion Loss			7	dB
Isolation	55			dB
Switching Time			100	ns
Input Power (CW)			0.5	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-5		Vdc
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: Absorptive SPDT PIN Diode Switch Operating From 70 MHz to 40 GHz Up to +27 dBm and 2.92mm PE71S2014

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

1 in [25.4 mm] 1.2 in [30.48 mm]

0.6 in [15.24 mm]

0.121 lbs [54.88 g] Absorptive, SPDT 2.92mm Female

## **Environmental Specifications**

**Temperature** 

Operating Range ESD Sensitivity

-30 to +60 deg C

2.92mm Female

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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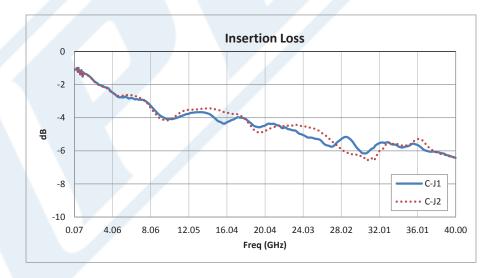


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#### **Typical Performance Data**





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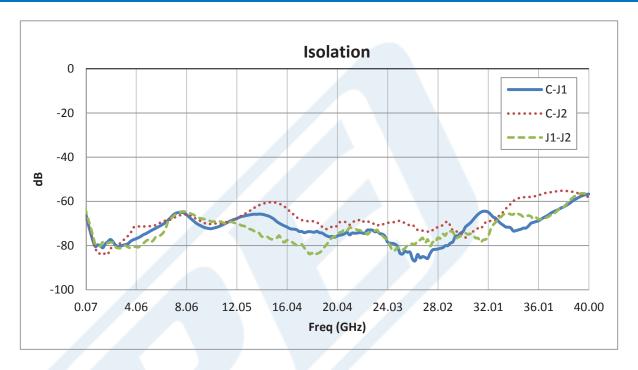
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URL: https://www.pasternack.com/absorptive-spdt-pin-diode-switch-40-ghz-27-dbm-2.92mm-pe71s2014-p.aspx

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.

## PE71S2014 CAD Drawing

Absorptive SPDT PIN Diode Switch Operating From 70 MHz to 40 GHz Up to +27 dBm and 2.92mm

