

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



## PIN Diode Switches Technical Data Sheet PE71S2013

#### Features

- SPDT Reflective Switch
- 0.07 GHz to 40 GHz
- Insertion Loss 5.5 dB max

#### **Applications**

- Test & Measurement
- Military Communication
- Commercial Communication

#### Description

The PE71S2013 is a SINGLE POLE DOUBLE THROW (SPDT) REFLECTIVE PIN DIODE SWITCH that operates from 0.07 to 40 GHz. Electrical performance includes 5.5 dB max insertion loss, -5 dB max return loss, 30 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.

Isolation 30 dB min

Power Input +27 dBm CW max

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.07		40	GHz
Impedance		50		Ohms
Return Loss			-5	dB
Insertion Loss			5.5	dB
Isolation	30			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: SPDT PIN Diode Switch Operating From 70 MHz to 40 GHz Up to +27 dBm and 2.92mm PE71S2013

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

1.2 in [30.48 mm]

1 in [25.4 mm]

2.92mm Female 2.92mm Female

#### **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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## PE71S2013

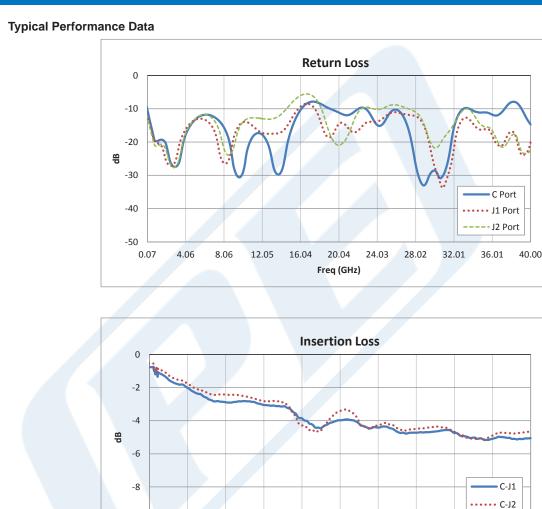


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-10 0.07

4.06

8.06

12.05

16.04

20.04

Freq (GHz)

24.03

28.02

32.01

36.01

40.00

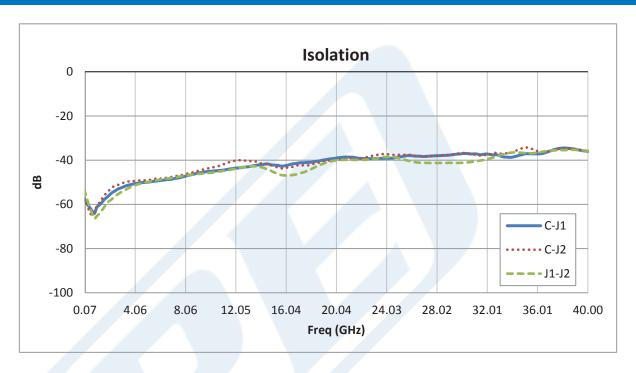


P A CONTRACTOR

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URL: https://www.pasternack.com/spdt-pin-diode-switch-40-ghz-27-dbm-2.92mm-pe71s2013-p.aspx

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## PE71S2013 CAD Drawing

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