



# PIN Diode Switches Technical Data Sheet PE71S2021 Features • SPDT Reflective Switch • Isolation 30 dB min • 2 GHz to 40 GHz • Power Input +27 dBm CW max

#### **Applications**

- Test & Measurement
- Military Communication
- Commercial Communication

#### Description

The PE71S2021 is a SINGLE POLE DOUBLE THROW (SPDT) REFLECTIVE PIN DIODE SWITCH that operates from 2 to 40 GHz. Electrical performance includes 4 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.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		40	GHz
Impedance		50		Ohms
Return Loss			-5	dB
Insertion Loss			4	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 2 GHz to 40 GHz Up to +27 dBm and 2.92mm PE71S2021

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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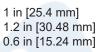
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#### Mechanical Specifications

Size Length Width Height Weight Design RF Connector TTL Control Connector

#### **Environmental Specifications**

**Temperature** Operating Range ESD Sensitivity



0.119 lbs [53.98 g] Reflective, SPDT 2.92mm Female 2.92mm Female

-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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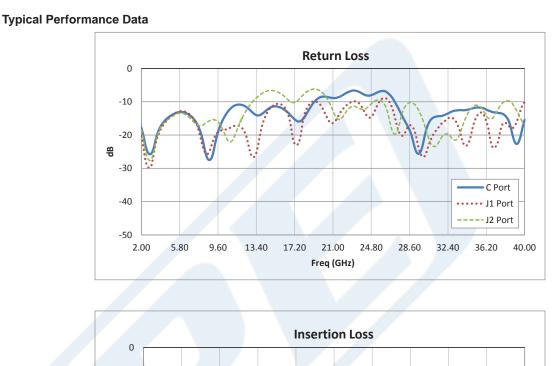
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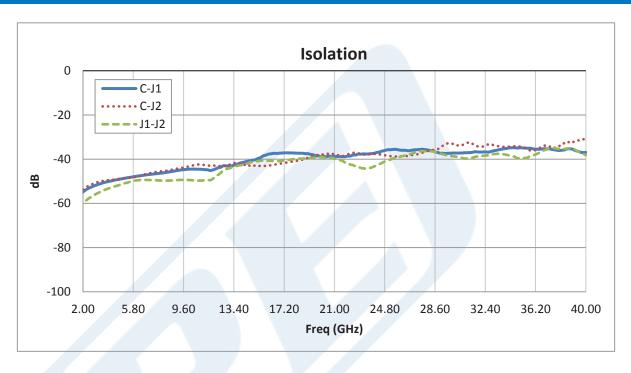
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URL: https://www.pasternack.com/spdt-pin-diode-switch-40-ghz-27-dbm-2.92mm-pe71s2021-p.aspx

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# PE71S2021 CAD Drawing

SPDT PIN Diode Switch Operating From 2 GHz to 40 GHz Up to +27 dBm and 2.92mm

