

SP3T PIN Diode Switch Operating From 8 GHz to 12 GHz Up to 0.1 Watts (+20 dBm) and Field Replaceable SMA



PIN Diode Switches Technical Data Sheet

PE71S6274

Features

- SP3T Reflective Switch
- 8.0 GHz to 12.0 GHz
- Insertion Loss 2.4 dB typ

- Isolation 70 dB min
- Power Input 20 dBm CW max
- Field Replaceable Connectors

Applications

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

RF Test Stations

Description

The PE71S6274 is a Single Pole Triple Throw (SP3T) Reflective PIN Diode Switch that operates from 8 GHz to 12 GHz. Typical performance includes < 2.4 dB insertion loss, > 70 dB isolation, and < 100 nsec switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -55°C to +85°C and dual voltage controls of +5 DC and -15 DC are required. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including humidity, shock, vibration, and temperature cycle. Package interfaces include solder terminals and female SMA connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		12	GHz
Impedance		50		Ohms
Insertion Loss		2.4		dB
Isolation	70			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15		Vdc
Current @ 5 Vdc		150		mA
Current @ -15 Vdc		75		mA
Operating Temperature	-55		+85	deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP3T PIN Diode Switch Operating From 8 GHz to 12 GHz Up to 0.1 Watts (+20 dBm) and Field Replaceable SMA PE71S6274

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 1.5 in [38.1 mm] Width 1.5 in [38.1 mm] Height 0.4 in [10.16 mm] Weight 0.095 lbs [43.09 g] Finish Blue Paint

Configuration

Reflective, SP3T Design **RF** Connector SMA Female Field Replaceable RF Connector Option TTL Control Connector Solder Pin

Environmental Specifications

Temperature Operating Range Storage Range

Humidity Shock Vibration Altitude **Temperature Cycling**

ESD Sensitivity

MIL-STD-202F, Method 103B, Condition B MIL-STD-202F, Method 213B, Condition B MIL-STD-202F, Method 204D, Condition B MIL-STD-202F, Method 105C, Condition B MIL-STD-202F, Method 107D, Condition A

-55 to +85 deg C

-65 to +125 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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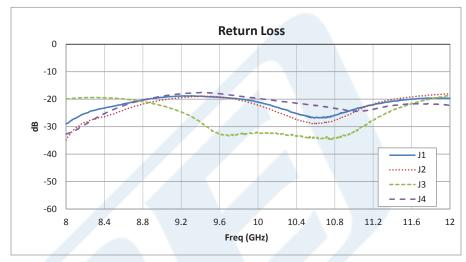
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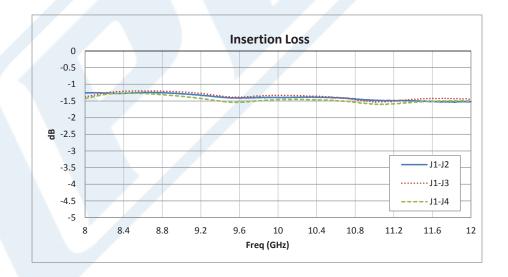


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Typical Performance Data





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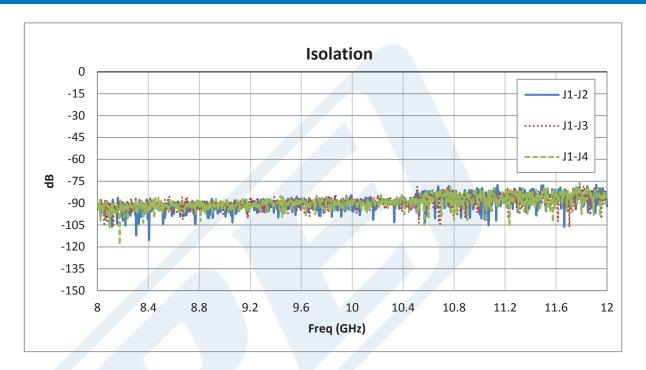


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URL: https://www.pasternack.com/sp3t-pin-diode-switch-12-ghz-20-dbm-sma-pe71s6274-p.aspx

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PE71S6274 CAD Drawing

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