



PIN Diode Switches Technical Data Sheet

PE71S6250

Features

- SP4T Absorptive Switch
- 1.0 GHz to 2.0 GHz
- Insertion Loss 1.2 dB max

- Isolation 60 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 PE71S6250 is a Single Pole Four Throw (SP4T) Absorptive PIN Diode Switch that operates from 1 GHz to 2 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Outstanding performance includes 1.2 dB max insertion loss, 60 dB min isolation, and 100 nsec max switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -40°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

Minimum	Typical	Maximum	Units
1		2	GHz
	50		Ohms
		1.2	dB
60			dB
		100	ns
		0.1	Watts
		1	Watts
	5		V
	-15		V
	200		mA
	100		mA
-40		+85	deg C
	60	1 50 60 5 -15 200 100	1 2 50 1.2 60 100 0.1 1 5 -15 200 100

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Absorptive SP4T PIN Diode Switch Operating From 1 GHz to 2 GHz Up to +20 dBm and Field Replaceable SMA PE71S6250

ISO 9001 : 2008 Registered





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Mechanical Specifications

Size

Length 1.25 in [31.75 mm] Width 1.25 in [31.75 mm] Height 0.4 in [10.16 mm] Weight 0.07 lbs [31.75 g] Finish Blue Paint

Configuration

Absorptive, SP4T 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

-40 to +85 deg C -55 to +125 deg C

12/17/2015

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

ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant REACH Compliant

Plotted and Other Data

Notes:

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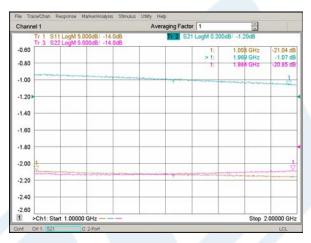


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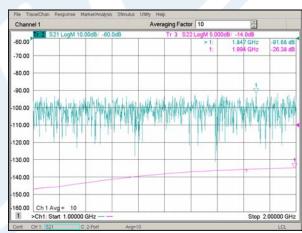
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Typical Performance Data





(J1 – J2) Isolation and Termination Return Loss





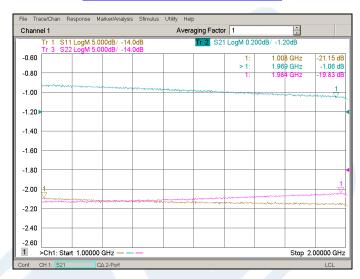




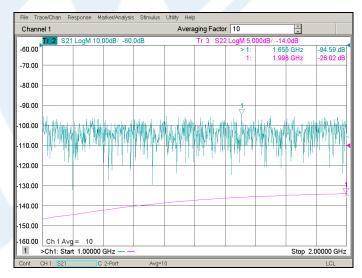
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(J1 – J3) Insertion Loss and Return Loss



(J1 – J3) Isolation and Termination Return Loss





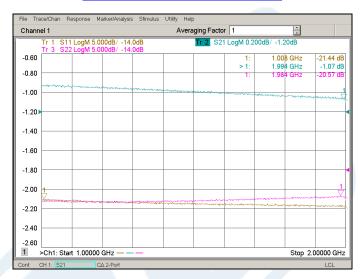




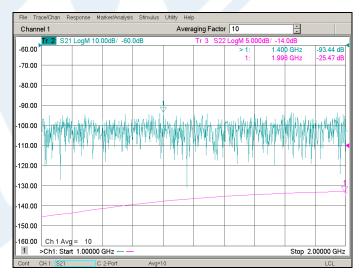
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(J1 – J4) Insertion Loss and Return Loss



(J1 – J4) Isolation and Termination Return Loss





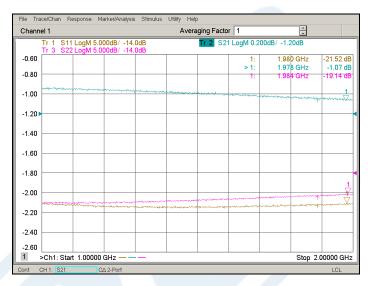




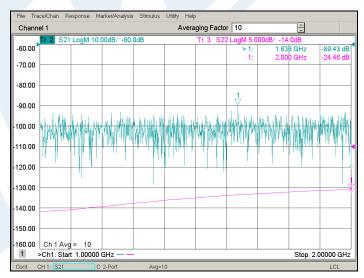
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(J1 – J5) Insertion Loss and Return Loss



(J1 – J5) Isolation and Termination Return Loss



Absorptive SP4T PIN Diode Switch Operating From 1 GHz to 2 GHz Up to +20 dBm and Field Replaceable SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.







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URL: http://www.pasternack.com/absorptive-sp4t-pin-diode-switch-2-ghz-20-dbm-sma-pe71s6250-p.aspx

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PE71S6250 CAD Drawing

Absorptive SP4T PIN Diode Switch Operating From 1 GHz to 2 GHz Up to +20 dBm and Field Replaceable SMA

