



PIN Diode Switches Technical Data Sheet

PE71S6209

Features

- SPST Absorptive Switch
- 0.5 GHz to 18.0 GHz
- Insertion Loss 3.5 dB max

- Isolation 55 dB min
- Power Input 20 dBm CW max
- Switching Speed 100 nsec max

Applications

- · Test & Measurement
- Military Communication
- Commercial Communication

Description

The PE71S6209 is a SPST Absortive Switch designed to operate over the 0.5 GHz to 18.0 GHz Frequecny Range. The switch is designed to maintain low insertion loss, high isolation, and fast switching speed.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		18	GHz
Impedance		50		Ohms
VSWR			2:1	
Insertion Loss			3.5	dB
Isolation	55			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watt
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15	50	Vdc
Current @ 5 Vdc		50		mA
Current @ -15Vdc		50		mA
Operating Temperature	-40		+85	deg C

Mechanical Specifications

Size

Length 1.2 in [30.48 mm] Width 0.9 in [22.86 mm] 0.35 in [8.89 mm] Height Weight 0.051 lbs [23.13 g] Absorptive, SPST Design RF Connector SMA Female RF Connector Option Field Replaceable TTL Control Connector Solder Pin

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Absorptive SPST PIN Diode Switch Operating From 500 MHz to 18 GHz Up to 0.1 Watts (+20 dBm) and Field Replaceable SMA PE71S6209

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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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

MIL-STD-202F, METHOD 103B COND. B MIL-STD-202F, METHOD 213B COND. B MIL-STD-202F, METHOD 204D COND. B MIL-STD-202F, METHOD 105C COND. B MIL-STD-202F, METHOD 107D COND. A

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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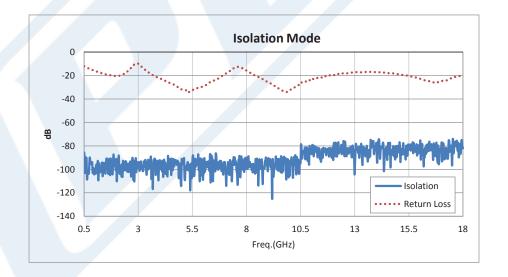


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Typical Performance Data





Absorptive SPST PIN Diode Switch Operating From 500 MHz to 18 GHz Up to 0.1 Watts (+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 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/absorptive-spst-pin-diode-switch-18-ghz-20-dbm-sma-pe71s6209-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.

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PE71S6209 CAD Drawing

Absorptive SPST PIN Diode Switch Operating From 500 MHz to 18 GHz Up to 0.1 Watts (+20 dBm) and Field Replaceable SMA

