



PIN Diode Switches Technical Data Sheet

PE71S6213

Features

- SP8T Absorptive Switch
- 0.5 GHz to 18.0 GHz
- Insertion Loss 4.5 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 PE71S6213 is a SP8T 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

TTL Control

Off/Isolation: "0" On/Low Loss: "1"

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		18	GHz
Impedance		50		Ohms
VSWR			2:01	
Insertion Loss			4.5	dB
Isolation	55			dB
Switching Time			50	ns
Settling Time			100	ns
RF Input Power (CW)*			0.1	Watts
Survival Power			1	Watt
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-5	70	Vdc
Current @ 5 Vdc		400		mA
Current @ -5Vdc		100		mA
Operating Temperature	-40		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: Absorptive SP8T PIN Diode Switch Operating from 500 MHz to 18 GHz Up to 0.1 Watts (+20 dBm) and Field Replaceable SMA PE71S6213

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 4 in [101.6 mm] Width 1.5 in [38.1 mm] Height 0.4 in [10.16 mm] Weight 0.249 lbs [112.94 g] Absorptive, SP8T Design **RF** Connector **SMA Female RF Connector Option** Field Replaceable TTL Control Connector Solder Pin

Environmental Specifications

Temperature

Operating Range -40 to 85 deg C Storage Range -55 to 125 deg C

Humidity
Shock
MIL-STD-202F, METHOD 103B COND. B
MIL-STD-202F, METHOD 213B COND. B
Vibration
MIL-STD-202F, METHOD 204D COND. B
Altitude
MIL-STD-202F, METHOD 105C COND. B
Temperature Cycling
MIL-STD-202F, METHOD 107D COND. A

ESD Sensitivity 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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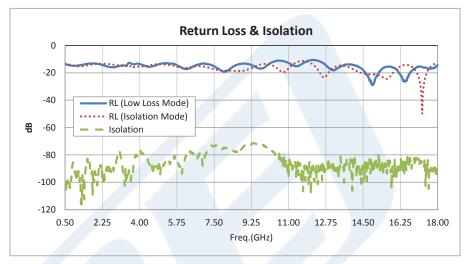


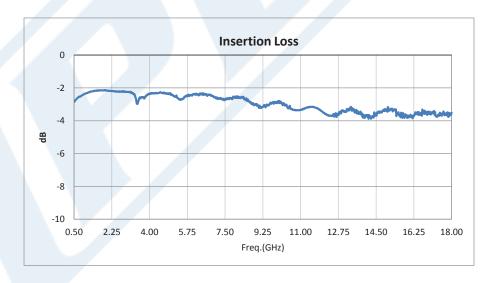


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Typical Performance Data





Absorptive SP8T 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-sp8t-pin-diode-switch-18-ghz-20-dbm-sma-pe71s6213-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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PE71S6213 CAD Drawing

Absorptive SP8T PIN Diode Switch Operating from 500 MHz to 18 GHz Up to 0.1 Watts (+20 dBm) and Field Replaceable SMA

