

# Absorptive SPST PIN Diode Switch Operating From 4 GHz to 8 GHz Up to +20 dBm and Field Replaceable SMA



## **PIN Diode Switches Technical Data Sheet**

PE71S6233

#### **Features**

- SPST Absortive Switch
- 4.0 GHz to 8.0 GHz
- Insertion Loss 1.8 dB max

- Isolation 75 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 PE71S6233 is a Single Pole Single Throw (SPST) Absorptive PIN Diode Switch that operates from 4 GHz to 8 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Outstanding typical performance includes < 1.8 dB insertion loss, > 75 dB isolation, and < 50 nsec 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 Vdc and -15 Vdc 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	4		8	GHz
Impedance		50		Ohms
Insertion Loss			1.8	dB
Isolation	75			dB
Switching Time			50	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		20		mA
Current @ -15 V		40		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 SPST PIN Diode Switch Operating From 4 GHz to 8 GHz Up to +20 dBm and Field Replaceable SMA PE71S6233

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



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#### **Mechanical Specifications**

Size

Length 1 in [25.4 mm] Width 1 in [25.4 mm] Height 0.5 in [12.7 mm] Weight 0.05 lbs [22.68 g] Finish Blue Paint

Configuration

Absorptive, SPST 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

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

12/17/2015

#### Plotted and Other Data

Notes:

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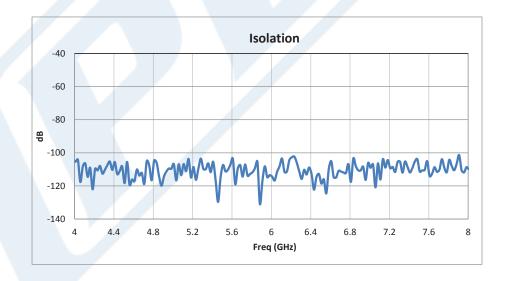


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#### **Typical Performance Data**





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URL: http://www.pasternack.com/absorptive-spst-pin-diode-switch-8-ghz-20-dbm-sma-pe71s6233-p.aspx

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# PE71S6233 CAD Drawing

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