

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



PIN Diode Switches Technical Data Sheet

PE71S6231

Features

- · SPST Absorptive Switch
- 1.0 GHz to 2.0 GHz
- Insertion Loss 0.9 dB typ

- Isolation 80 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 PE71S6231 is a Single Pole Single Throw (SPST) 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 0.9 dB typ insertion loss, 80 dB typ isolation, and 50 nsec max 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 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	1		2	GHz
Impedance		50		Ohms
Insertion Loss		0.9		dB
Isolation	80			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	-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: Absorptive SPST PIN Diode Switch Operating From 1 GHz to 2 GHz Up to +20 dBm and Field Replaceable SMA PE71S6231

ISO 9001 : 2008 Registered

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Mechanical Specifications

Size

Length 1 in [25.4 mm] Width 1 in [25.4 mm] 0.5 in [12.7 mm] Height 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

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 (visit www.Pasternack.com for current document)

Not RoHS Compliant REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

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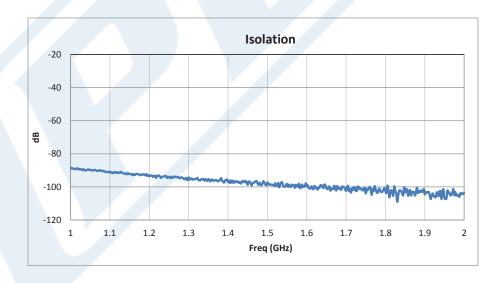


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Typical Performance Data





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URL: http://www.pasternack.com/absorptive-spst-pin-diode-switch-2-ghz-20-dbm-sma-pe71s6231-p.aspx

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PE71S6231 CAD Drawing

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