

SPDT PIN Diode Switch Operating From 8 GHz to 12 GHz Up to +20 dBm and Field Replaceable SMA



PE71S6267

PIN Diode Switches Technical Data Sheet

Features

- SPDT Reflective Switch
- 8.0 GHz to 12.0 GHz
- Insertion Loss 1.9 dB typ

Applications

- Test & Measurement
- Military Communication
- Commercial Communication

- Isolation 70 dB min
- Power Input 20 dBm CW max
- Field Replaceable Connectors
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

Description

The PE71S6267 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch that operates from 8.0 to 12.0 GHz. Typical Performance includes 1.9 dB insertion loss, 70 dB Isolation, and 100 nsec 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 DC and -15 DC are required. The rugged package design is compact, features field replaceable female SMA connectors, and is designed to meet MIL-STD 202F environmental test conditions which include humidity, shock, vibration, altitude, and temperature cycle.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		12	GHz
Impedance		50		Ohms
Insertion Loss		1.9		dB
Isolation	70			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		100		mA
Current @ -15 V		75		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: SPDT PIN Diode Switch Operating From 8 GHz to 12 GHz Up to +20 dBm and Field Replaceable SMA PE71S6267

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

ISO 9001 : 2008 Registered



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Mechanical Specifications

Size Length Width Height Weight Finish

Configuration Design **RF** Connector

RF Connector Option **TTL Control Connector**

Environmental Specifications

Temperature **Operating Range** Storage Range

Humidity Shock Vibration Altitude **Temperature Cycling** ESD Sensitivity



1 in [25.4 mm] 1 in [25.4 mm] 0.4 in [10.16 mm] 0.05 lbs [22.68 g] Blue Paint

Reflective, SPDT SMA Female Field Replaceable Solder Pin

-55 to +85 deg C -65 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

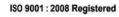
12/17/2015

Plotted and Other Data Notes:

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Typical Performance Data Return Loss 0 -10 -20 **-30** -40 - 11 J2 -50 ---- 13 -60 8 8.4 8.8 9.2 9.6 10 10.4 10.8 11.2 11.6 12 Freq (GHz) Insertion Loss 0.0 -1.0 -2.0 명 -3.0 -4.0 J1-J2 •••••• J1-J3 -5.0 8

-3.0 -4.0 -5.0 8 8.4 8.8 9.2 9.6 10 10.4 10.8 11.2 11.6 12 Freq (GHz)

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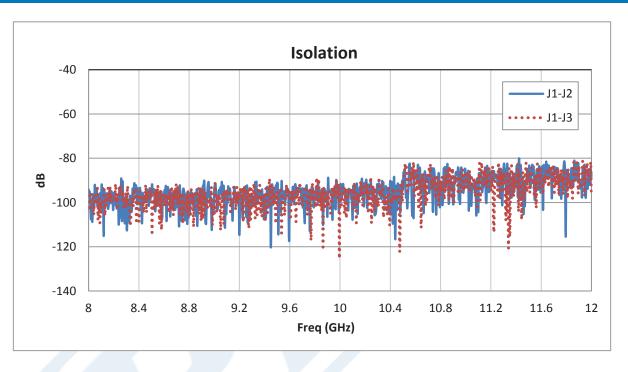


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URL: http://www.pasternack.com/spdt-pin-diode-switch-12-ghz-20-dbm-sma-pe71s6267-p.aspx

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PE71S6267 CAD Drawing

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