

SPDT PIN Diode Switch Operating From 2 GHz to 4 GHz Up to 1 Watt (+30 dBm) and Field Replaceable SMA



PIN Diode Switches Technical Data Sheet

PE71S6219

Features

- SPDT Reflective Switch
- 2 GHz to 4 GHz
- Insertion Loss 0.9 dB typ

Applications

- Test & Measurement
- Military Communication
- Commercial Communication

- Isolation 75 dB min
- Power Input 30 dBm CW max
- Field Replaceable Connectors
- Wireless Communications
- SATCOM
- · Military Electronic Systems
- RF Test Stations

Description

The PE71S6219 is a Single Pole Double Throw (SPDT) Reflective PIN Diode Switch that operates from 2 GHz to 4 GHz. Performance includes 0.9 dB typ insertion loss, 75 dB min isolation and 100 ns max 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	2		4	GHz
Impedance		50		Ohms
VSWR			1.6:1	
Insertion Loss		0.9		dB
Isolation	75			dB
Switching Time			100	ns
Input Power (CW)			1	Watts
Input Power (Peak) @ 1 µs / 1% Duty Cycle			10	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15		Vdc
Current @ 5 Vdc		80		mA
Current @ -15 Vdc		50		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: SPDT PIN Diode Switch Operating From 2 GHz to 4 GHz Up to 1 Watt (+30 dBm) and Field Replaceable SMA PE71S6219

ISO 9001 : 2008 Registered

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 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



1.2 in [30.48 mm] 0.9 in [22.86 mm] 0.35 in [8.89 mm] 0.057 lbs [25.85 g]

Blue Paint

Reflective, SPDT SMA Female Field Replaceable Solder Pin

-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 (see product page for current document)

Plotted and Other Data

Notes:

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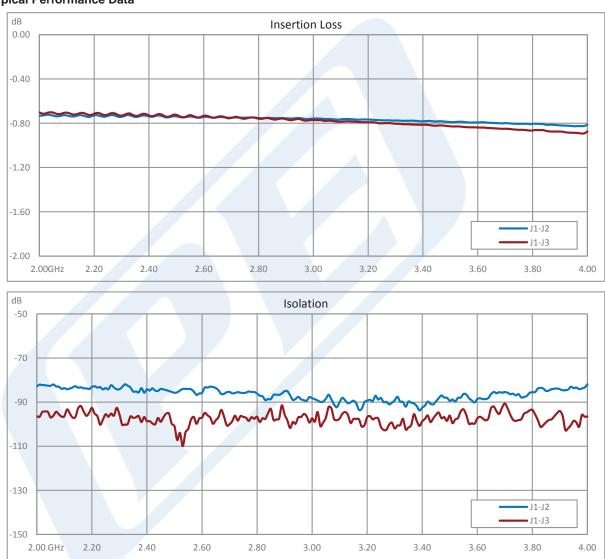


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Typical Performance Data

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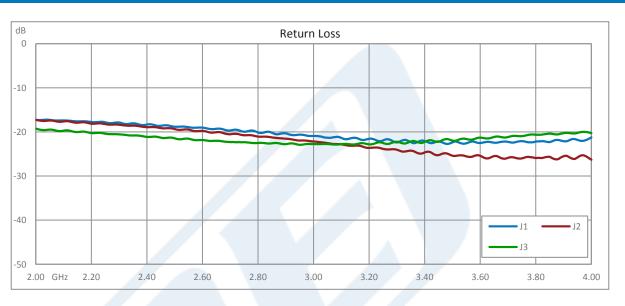




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SPDT PIN Diode Switch Operating From 2 GHz to 4 GHz Up to 1 Watt (+30 dBm) and Field Replaceable SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/spdt-pin-diode-switch-4-ghz-30-dbm-sma-pe71s6219-p.aspx

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PE71S6219 CAD Drawing

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