

\$2 *05*55 \$65.25 \$1.52 \$0.35 \$

90 dB High Isolation SPDT PIN Diode Switch 1 GHz to 2 GHz, 1 dB Insertion Loss with SMA

TECHNICAL DATA SHEET

PE71S5002

Pasternack model PE71S5002 is a general purpose 1.0 GHz to 2.0 GHz single pole, double throw high isolation, absorptive switch. This switch offers 90 dB typical port-to-port isolation, and a typical insertion loss of 1.0 dB at room temperature. It has a 75 ns typical switching speed, and independently TTL controlled.

Features

- · SPDT PIN Diode Absorptive Switch
- · 1 GHz to 2 GHz Frequency Range
- · Insertion Loss: 1.0 db typical
- · High Isolation: 90 dB typical
- VSWR: 1.3:1

- Fast Switching Speed: 75 nsec.
- · Integrated TTL Driver
- · Power Handling: +32 dBm
- · Operating Temperature Range: -54 °C to 85°C

Applications

- · Electronic Warfare
- Radar

- Test & Measurements
- Military & Space

- · Military Communication Systems
- · PIN diode switch

Electrical Specifications

Description	Typical at 25 °C	-54 to +85 °C	Units
Frequency Range	1 - 2	1 - 2	GHz
Insertion Loss	1	1.2	dB
Isolation	90	85	dB
VSWR	1.3:1	1.5:1	
Switching Speed	75	100	ns
DC Bias at 5 VDC	70	80	mA
DC Bias at -15 VDC	40	50	mA
Control Input	TTL	TTL	
Power Handling	+32	+30	dBm

TTL Logic Table

TTL LOGIC TABLE				
CTL	J1-J2	J1-J3		
0	LOW LOSS	INSOLATED		
1	INSOLATED	LOW LOSS		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 90 dB High Isolation SPDT PIN Diode Switch 1 GHz to 2 GHz, 1 dB Insertion Loss with SMA PE71S5002

ISO 9001 : 2008 Registered





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Absolute Maximum Rating

Parameter	Rating	Units
Positive Voltage	+7	Volts
Negative Voltage	-14	Volts
RF input Power	+30	dBm
Operating Temperature	-54 to +85	°C
Storage Temperature	-55 to +100	°C



ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Mechanical Specifications

Size

 Length
 1.2 in [30.48 mm]

 Width/Dia.
 0.9 in [22.86 mm]

 Height
 0.35 in [8.89 mm]

Environmental Specifications By Design

Temperature

 Operating Range
 -54 to +85 deg C

 Humidity
 Mil-STD-810 507.4

 Shock
 Mil-STD-810 method 504, 516.5

 Vibration
 Mil-STD-810 514.6

 Temperature Cycle
 Mil-STD-810 501.5, 502.5

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

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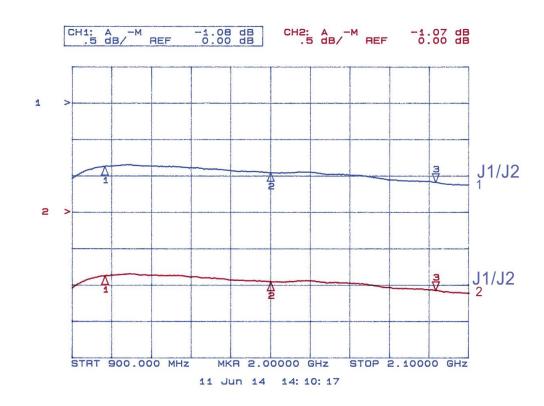


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Power Data



Insertion Loss

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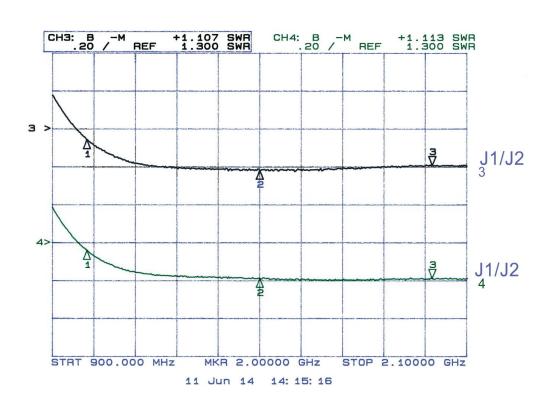




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VSWR

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90 dB High Isolation SPDT PIN Diode Switch 1 GHz to 2 GHz, 1 dB Insertion Loss with 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: http://www.pasternack.com/spdt-high-isolation-pin-diode-switch-1-2-ghz-sma-pe71s5002-p.aspx

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PE71S5002 CAD Drawing

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