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80 dB High Isolation SP4T PIN Diode Switch 2 GHz to 6 GHz, 1.8 dB Insertion Loss with SMA

TECHNICAL DATA SHEET

PE71S5003

Pasternack model PE71S5003 is a general purpose 2.0 GHz to 6.0 GHz single pole, four throw high isolation reflective switch. This switch offers 80 dB typical port-to-port isolation, and a typical insertion loss of 1.0 dB at room temperature. It has an excellent 35 ns typical switching speed, and independently TTL controlled.

Features

- · SP4T PIN Diode Reflective Switch
- · 2 GHz to 6 GHz Frequency Range
- Insertion Loss: 1.8 db typical
- High Isolation: 80 dB typical
- VSWR: 1.5:1

- Fast Switching Speed: 35 nsec.
- · Integrated TTL Driver
- · Power Handling: +27 dBm
- · Operating Temperature Range: -54 °C to 85°C

Applications

- · Electronic Warfare
- Radar
- · Test & Measurements
- Military & Space
- · Military Communication Systems
- GaAs MMIC-based

PIN Diode Switch

Electrical Specifications

Description	Typical at 25 °C	-54 to +85 °C	Units	
Frequency Range	2 - 6	2 - 6	GHz	
Insertion Loss	1.8	2.2	dB	
Isolation	80 70		dB	
VSWR	1.5:1	2:1		
Switching Speed	35	50	ns	
DC Bias at 5 VDC	70	80	mA	
DC Bias at -15 VDC	40	50	mA	
Control Input	TTL	TTL		
Power Handling	+27	+27	dBm	

TTL Logic Table

TRUTH TABLE						
AO	A1	A2	Е	POSITION		
1	0	0	1	J0-J1		
0	1	0	1	J0-J2		
0	0	1	1	J0-J3		
1	0	1	1	J0-J4		
Χ	Χ	Χ	0	DISABLED		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 80 dB High Isolation SP4T PIN Diode Switch 2 GHz to 6 GHz, 1.8 dB Insertion Loss with SMA PE71S5003

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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	+24	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

Environmental Specifications By Design

Temperature

Operating Range Humidity Shock Vibration Temperature Cycle -54 to +85 deg C Mil-STD-810 507.4 Mil-STD-810 method 504, 516.5 Mil-STD-810 514.6 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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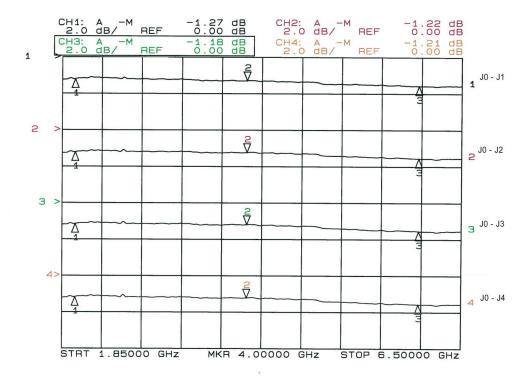


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Power Data



Insertion Loss

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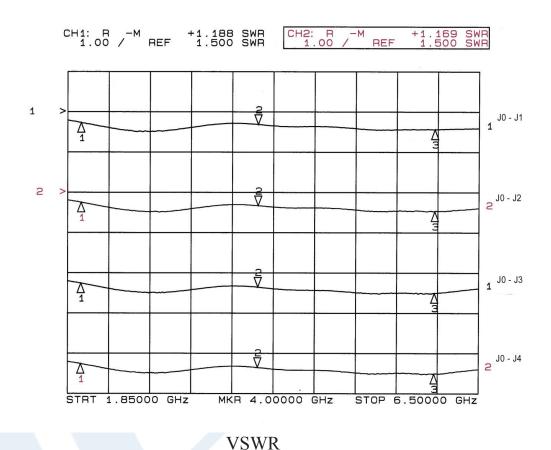




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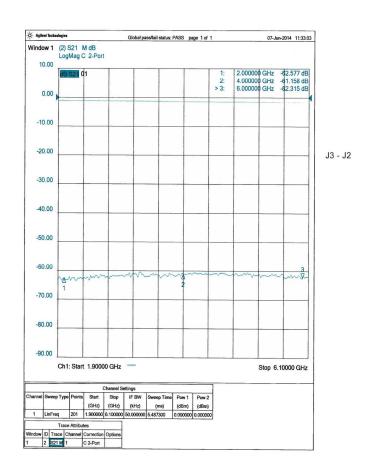




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Isolation J3 to J2

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URL: http://www.pasternack.com/sp4t-high-isolation-pin-diode-switch-2-6-ghz-sma-pe71s5003-p.aspx

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PE71S5003 CAD Drawing

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