



Absorptive SPDT PIN Diode Switch Operating From 800 MHz to 2.7 GHz Up to 100 Watts (+50 dBm) and SMA

PIN Diode Switches Technical Data Sheet

PE71S2041

Features

- SPDT PIN Diode Switch
- Terminated
- 800 to 2700 MHz Bandwidth
- Insertion loss: 1.2 dB max
- Isolation: 60 dB min
- 50 Ohms
- Switching Speed: 10 microseconds
- DC voltage: +15 Vdc
- SMA female connectors
- TTL Control Logic

Applications

- Electronic Warfare
- Test & Measurement
- Military and Wireless Communications Systems
- Military & Space Radar

Description

The PE71S2041 is a single pole double throw (SPDT) terminated PIN diode switch that operates over the frequency range of 800 MHz to 2700 MHz. The 50 ohm design supports TTL control logic and is rated up to 100 watt average RF input power. Typical performance includes 1.2 dB insertion loss and greater than 60 dB isolation. Switching speed is 40 microseconds with 1.4:1 typical VSWR and an operating voltage of +15 Vdc with 80 mA nominal current. The rugged package design supports SMA Female RF input/output connectors. The Switch design is highly reliable with an operational temperature of 0°C to +70°C.

Electrical Specifications

TTL Control

Off/Isolation: "0" 0 to V
 On/Low Loss: "1"

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.8		2.7	GHz
Impedance		50		Ohms
VSWR			1.4:1	
Switching Time		6	10	µs
Input Power (CW)			100	Watts
Input Power, Hot Switching (CW)			30	Watts
Positive Operating Voltage		15		Vdc
Current @ 15 Vdc		80		mA
Operating Temperature	0		+70	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 SPDT PIN Diode Switch Operating From 800 MHz to 2.7 GHz Up to 100 Watts \(+50 dBm\) and SMA PE71S2041](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.8 to 2	2 to 2.7				GHz
Insertion Loss, Max	1	1.2				dB
Insertion Loss, Typ	0.6	0.8				dB
Isolation, Min	65	60				dB
Isolation, Typ	75	70				dB

Mechanical Specifications

Size

Design
RF Connector

Absorptive, SPDT
SMA Female

Environmental Specifications

Temperature

Operating Range
Storage Range

0 to +70 deg C
-55 to +90 deg C

ESD Sensitivity

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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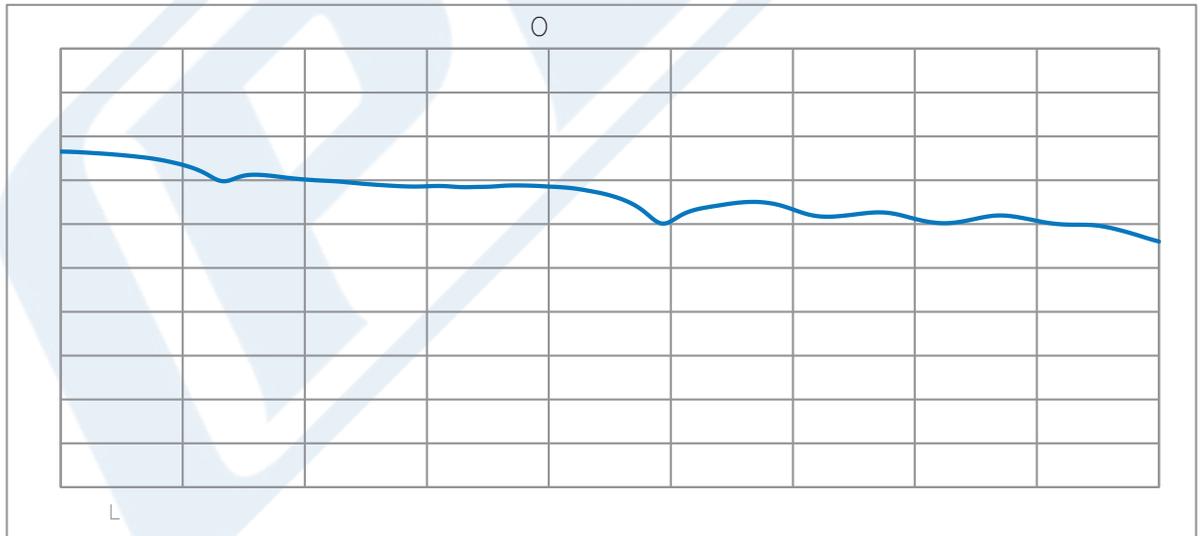
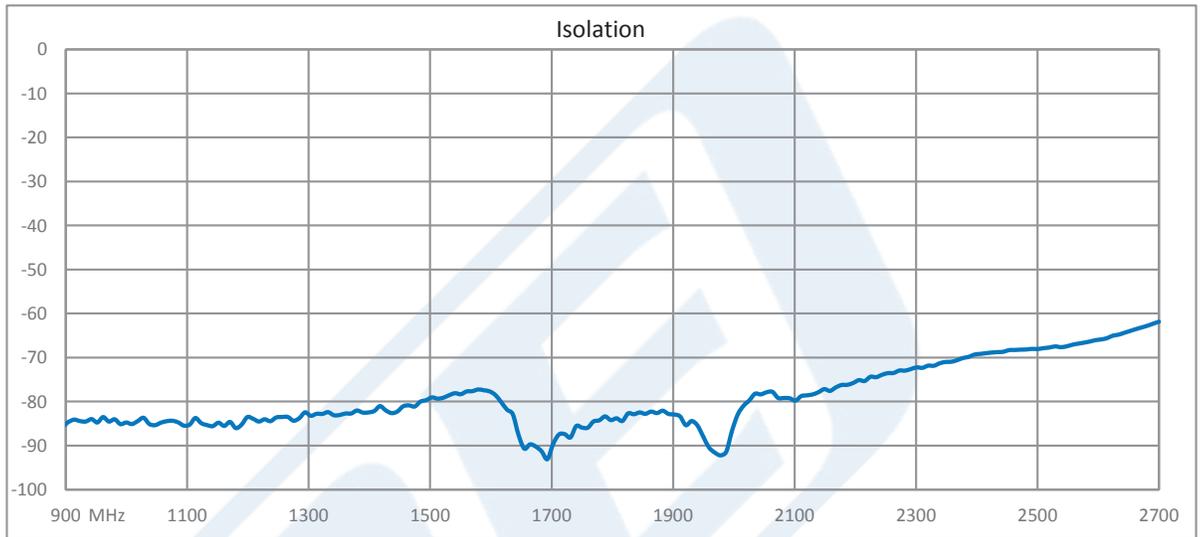


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Typical Performance Data



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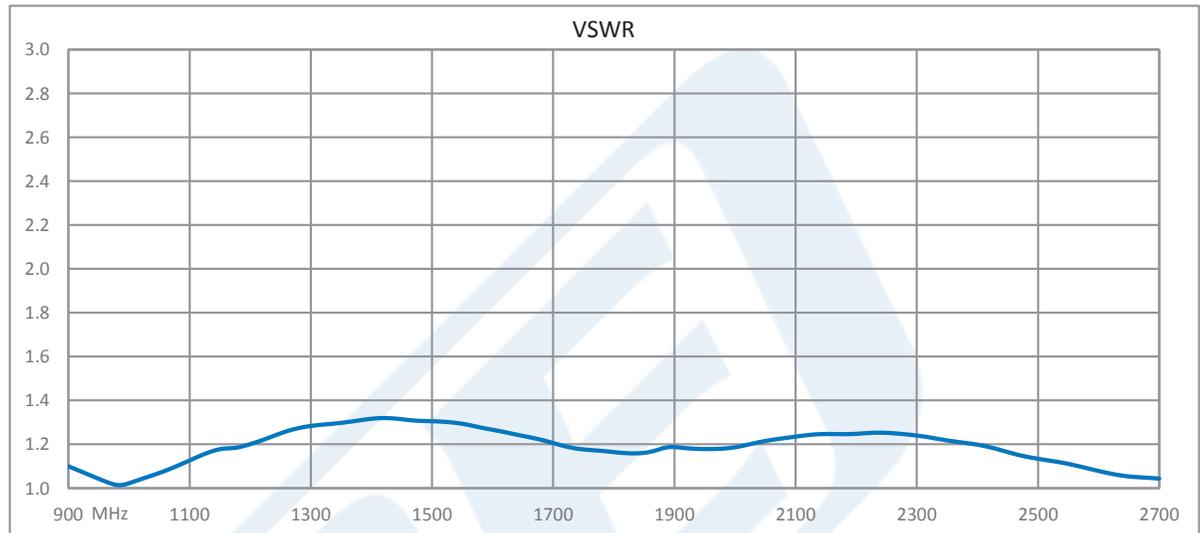




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