



PIN Diode Switches Technical Data Sheet

PE71S2038

Features

- SPDT High Power PIN Diode Switch
- 250 watt (CW)
- 100 to 500 MHz Bandwidth
- Insertion loss: 0.5 dB max
- · Isolation: 55 dB min

- 50 Ohms
- Switching Speed: 40 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 PE71S2038 is a single pole double throw (SPDT) PIN diode switch that operates over the frequency range of 100 MHz to 500 MHz. The 50 ohm design supports TTL control logic and is rated up to 250 watt average RF input power. Typical performance includes 0.5 dB insertion loss and greater than 55 dB isolation. Switching speed is 40 microseconds with 1.25:1 typical VSWR and an operating voltage of +15 Vdc with 250 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 -20°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	100		500	MHz
Impedance		50		Ohms
VSWR			1.25:1	
Insertion Loss			0.5	dB
Isolation	55			dB
Switching Time			40	μs
Input Power (CW)			250	Watts
Input Power (Peak) @ 1 µsec Pules Width			500	Watts
Positive Operating Voltage		15		Vdc
Current @ 15 Vdc		250		mA
Operating Temperature	-20		+70	deg C

Mechanical Specifications

Size

Design RF Connector Reflective, SPDT SMA Female

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 100 MHz to 500 MHz Up to 250 Watts (+54 dBm) and SMA PE71S2038

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ISO 9001 : 2008 Registered





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Environmental Specifications

Temperature

Operating Range Storage Range

ESD Sensitivity

-20 to +70 deg C -55 to +85 deg C

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

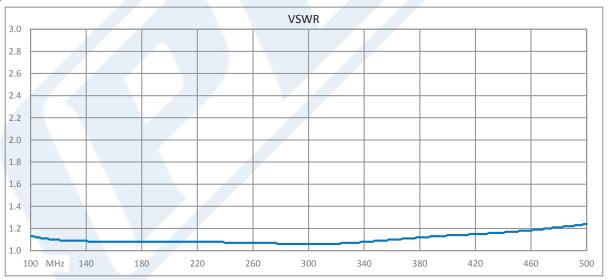


Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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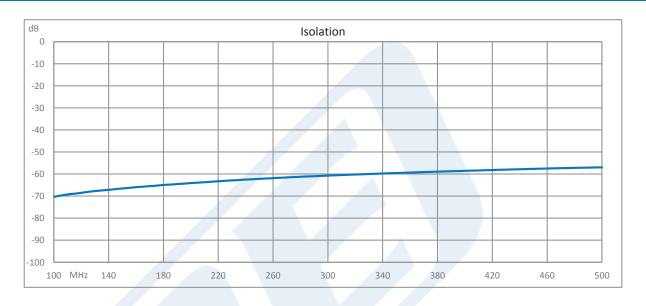
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SPDT PIN Diode Switch Operating From 100 MHz to 500 MHz Up to 250 Watts (+54 dBm) and SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 100 MHz to 500 MHz Up to 250 Watts (+54 dBm) and SMA PE71S2038

URL: https://www.pasternack.com/spdt-pin-diode-switch-500-mhz-250-watts-sma-pe71s2038-p.aspx

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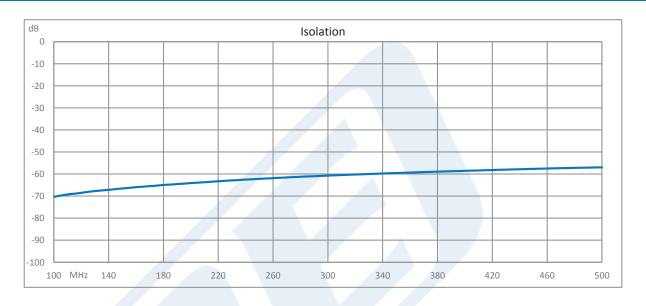






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PE71S2038 CAD Drawing

SPDT PIN Diode Switch Operating From 100 MHz to 500 MHz Up to 250 Watts (+54 dBm) and SMA

