

SPDT PIN Diode Switch Operating from 30 MHz to 530 MHz Up to 5 Watts (+37 dBm) and SMA



PIN Diode Switches Technical Data Sheet

PE71S2047

Features

- SPDT Reflective Switch
- 30 MHz to 530 MHz
- Insertion Loss 1.0 dB max
- Isolation 50 dB

- Power Input +37 dBm CW max
 Switching Time: 0.15 μs
- Field replaceable SMA connetors
- Mil Spec Compliant

Applications

- Test & Measurement
- Military Communication
- Commercial Communication
- · Wireless Communications
- SATCOM
- · Military Electronic Systems

RF Test Stations

Description

The PE71S2047 is a Single Pole Double Throw (SPDT) PIN Diode Switch that operates over a frequency band from 30 to 530 MHz. Electrical performance includes max insertion loss of 1.0 dB, min isolation of 50 dB, and max switching speed of 0.15 μ s. The design requires voltage controls of +5 Vdc, with an operational temperature range of -40°C to +85°C. External connectors include solder terminals and Field Replaceable SMA female connectors. Conforms to MIL-STD for Shock, Vibration, Altitude, and Humidity.

Electrical Specifications

TTL Control

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	30		530	MHz
Impedance		50		Ohms
VSWR		1.2:1	1.5:1	
Insertion Loss			1	dB
Isolation		60		dB
Switching Time		150	200	ns
Input Power (CW)			5	Watts
Current		1		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 30 MHz to 530 MHz Up to 5 Watts (+37 dBm) and SMA PE71S2047

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Mechanical Specifications

Size

 Length
 1.25 in [31.75 mm]

 Width
 1.25 in [31.75 mm]

 Height
 0.563 in [14.3 mm]

 Design
 Reflective, SPDT

 RF Connector
 SMA Female

 TTL Control Connector
 Solder Pin

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +125 deg C

Humidity MIL-STD-202F, Method 103B, Condition B
Shock MIL-STD-202F, Method 213B, Condition B
Vibration MIL-STD-202F, Method 204D, Condition B
Altitude MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SPDT PIN Diode Switch Operating from 30 MHz to 530 MHz Up to 5 Watts (+37 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.

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URL: https://www.pasternack.com/spdt-pin-diode-switch-530-mhz-5-watts-sma-pe71s2047-p.aspx

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PE71S2047 CAD Drawing

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