



50 Ohm SMA SPDT PIN Diode Switch Operating
From 8 GHz to 12 GHz Up To +27 dBm

TECHNICAL DATA SHEET

PE7116

50 Ohm SMA SPDT PIN Diode Switch Operating From 8 GHz to 12 GHz Up To +27 dBm

Configuration

RF Connector	SMA Female
RF Connector Specification	MIL-C-39012
Control Connector	Solder Pin
Design	Absorptive, SPDT

Electrical Specifications

Frequency Range, GHz	8 to 12
Impedance, Ohms	50
Maximum Input Power, dBm	+27
Maximum Input VSWR	1.8:1
Maximum Insertion Loss, dB	2.2
Minimum Isolation, dB	70
Maximum Speed, ns	100
Power Supply 1, Volts	5
Power Supply 2, Volts	-15
Power Supply 2 Tolerance, Volts	3

Mechanical Specifications

Temperature

Operating Range, deg C	-55 to +85
Storage Range, deg C	-65 to +125

Size

Length, in [mm]	1.975 [50.17]
Width, in [mm]	1.275 [32.39]
Height, in [mm]	0.35 [8.89]

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

RoHS Compliant	Yes
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA SPDT PIN Diode Switch Operating From 8 GHz to 12 GHz Up To +27 dBm PE7116](#)

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.



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Plotted and Other Data

Notes:

Values at 25 °C, sea level

50 Ohm SMA SPDT PIN Diode Switch Operating From 8 GHz to 12 GHz Up To +27 dBm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

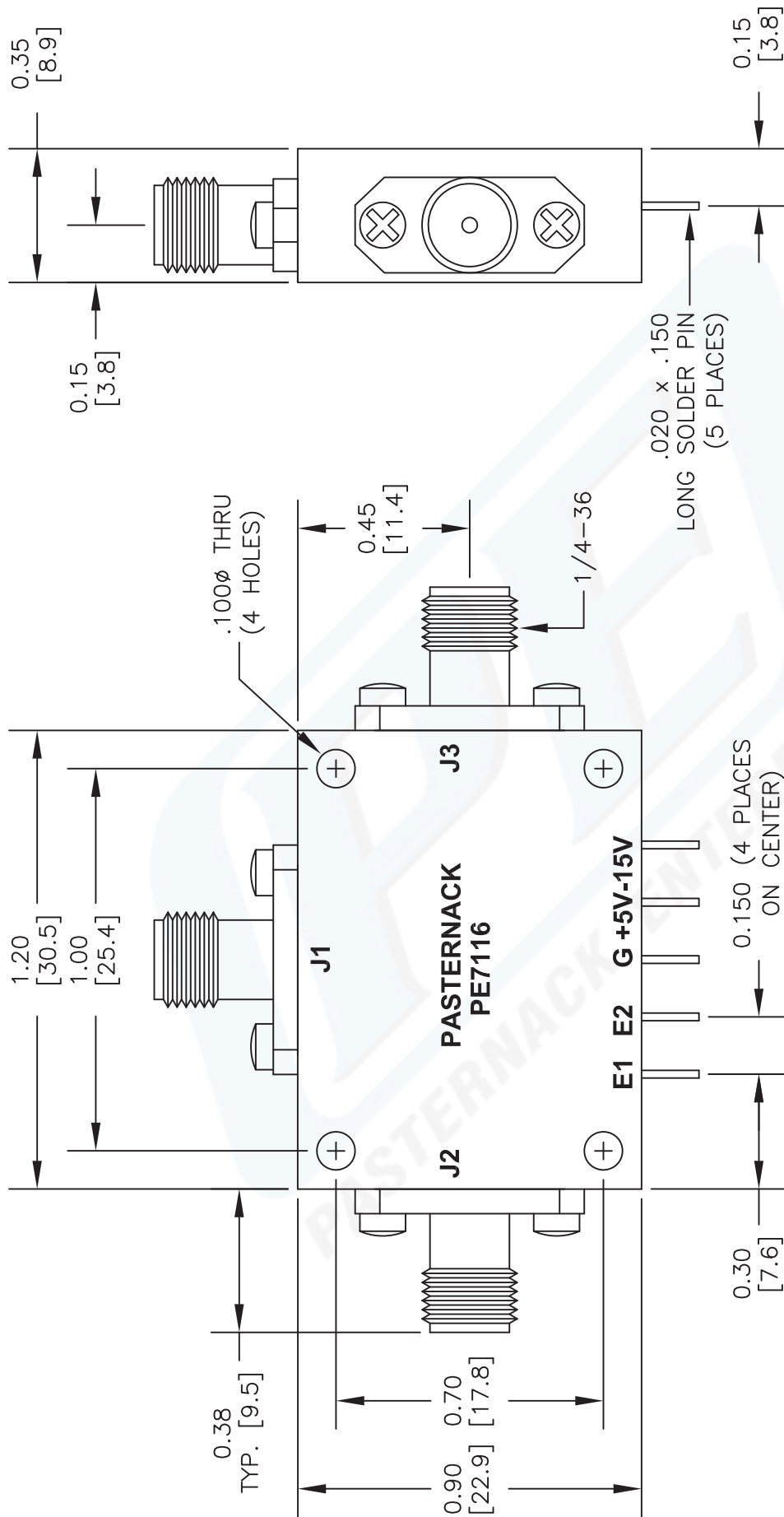
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA SPDT PIN Diode Switch Operating From 8 GHz to 12 GHz Up To +27 dBm PE7116](http://www.pasternack.com/50-ohm-sma-spdt-pin-switch-8000-mhz-12000-mhz-1-watt-pe7116-p.aspx)

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PE7116 CAD Drawing

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TTL Logic Table

CTL	J1-J2	J1-J3
0	Low Loss	Isolated
1	Isolated	Low Loss

NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE7116

FSCM NO. 53919

CAD FILE 040413-C

SCALE N/A

SIZE A

2233

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