



2.92mm SPDT PIN Diode Switch Operating From 2 GHz to 40 GHz Up To +27 dBm

PIN Diode Switches Technical Data Sheet

PE71S2022

Features

- SPDT Absorptive Switch
- 2.0 GHz to 40.0 GHz
- Insertion Loss 5.5 dB max
- Isolation 55 dB min
- Power Input 27 dBm CW max

Applications

- Test & Measurement
- Military Communication
- Commercial Communication

Description

The PE71S2022 is a SPDT Absorptive Switch designed to operate over the 2.0 GHz to 40.0 GHz Frequency Range. The switch is designed to maintain low insertion loss, high isolation, and fast switching speed.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------------|---------|---------|---------|-------|
| Frequency Range | 2 | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 5.5 | dB |
| Isolation | 55 | | | dB |
| Switching Time | | | 100 | ns |
| Input Power (CW) | | | 0.5 | Watts |
| Positive Operating Voltage | | 5 | | V |
| Negative Operating Voltage | | -5 | | V |
| Operating Temperature | -55 | | 85 | deg C |

Mechanical Specifications

| | |
|--------------|----------------------|
| Size | |
| Length | 1 in [25.4 mm] |
| Width | 1.2 in [30.48 mm] |
| Height | 0.6 in [15.24 mm] |
| Package Type | Connectorized Module |
| Design | SPDT, Absorptive |
| RF Connector | 2.92mm Female |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm SPDT PIN Diode Switch Operating From 2 GHz to 40 GHz Up To +27 dBm PE71S2022](#)



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Environmental Specifications

Temperature

Operating Range

-55 to 85 deg C

ESD Sensitivity

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



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

Not RoHS Compliant

Plotted and Other Data

Notes:

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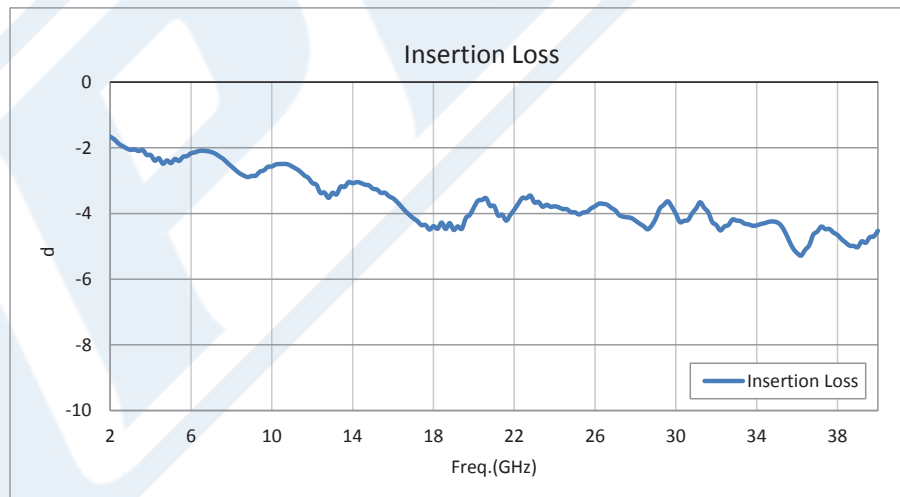
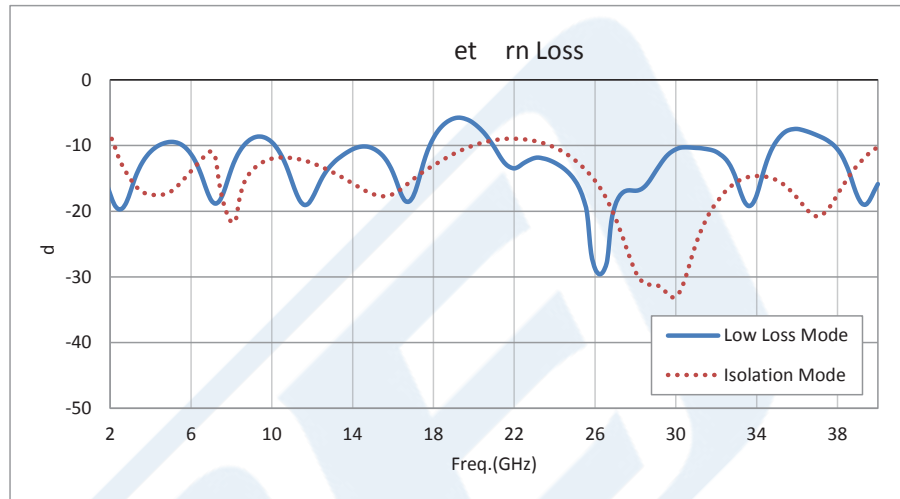


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Typical Performance Data



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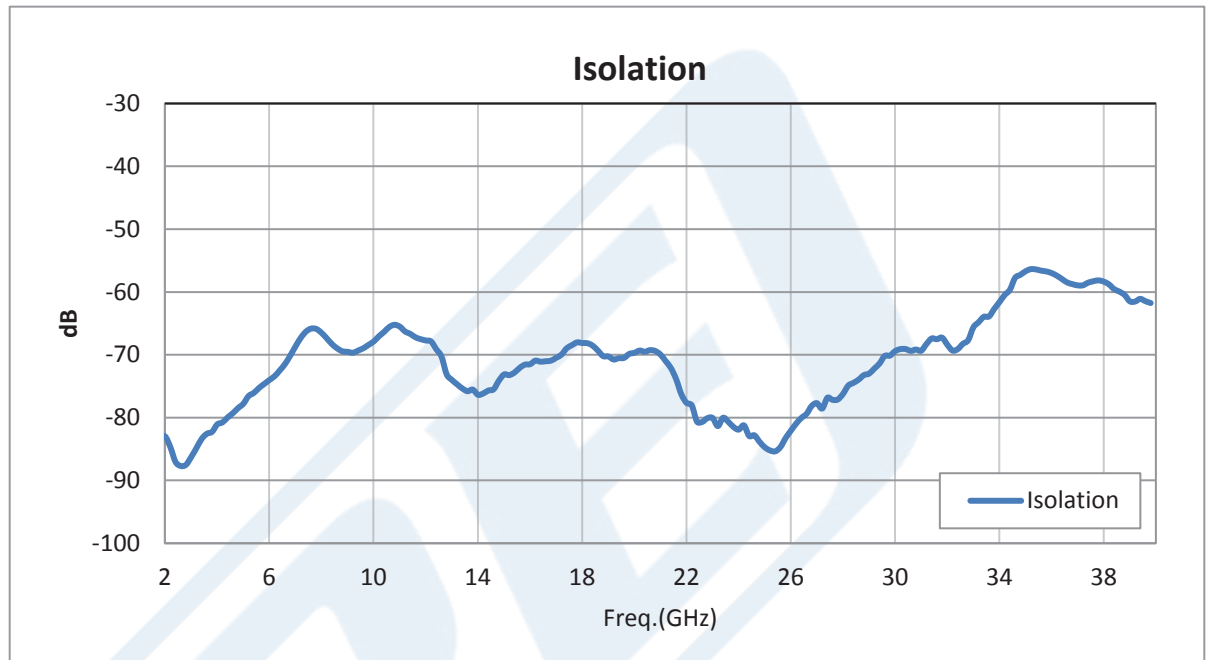




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2.92mm SPDT PIN Diode Switch Operating From 2 GHz to 40 GHz Up To +27 dBm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part 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: [2.92mm SPDT PIN Diode Switch Operating From 2 GHz to 40 GHz Up To +27 dBm PE71S2022](http://www.pasternack.com/2.92mm-spdt-pin-diode-switch-2-40-ghz-27-dbm-pe71s2022-p.aspx)

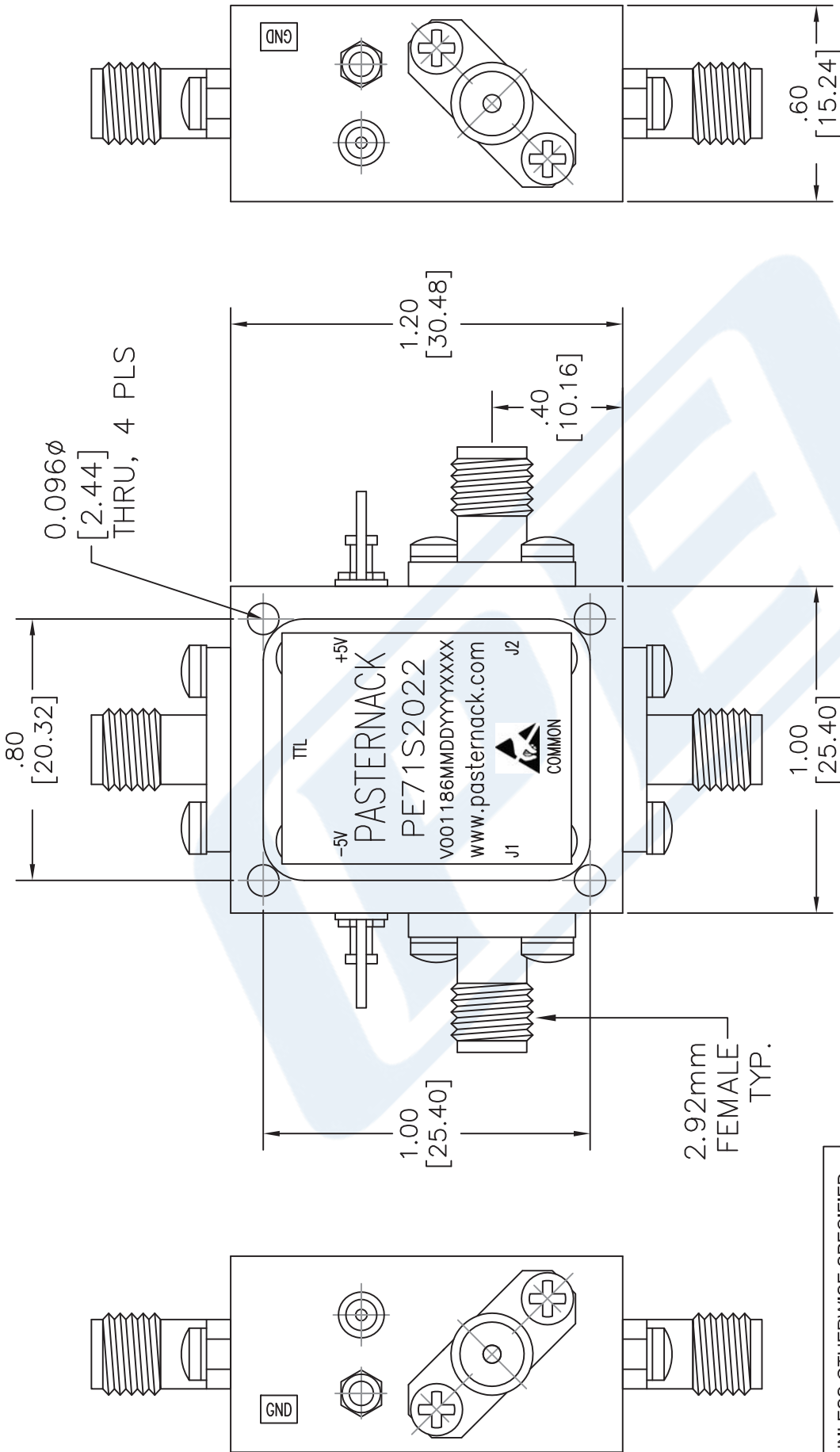
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



PE71S2022 CAD Drawing

2.92mm SPDT PIN Diode Switch Operating From 2 GHz to 40 GHz Up To +27 dBm



| TTL | LOW | ISOLATION |
|-------|------|-----------|
| LOGIC | LOSS | |
| HIGH | C-J2 | C-J1 |
| LOW | C-J1 | C-J2 |

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].
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE
PE71S2022

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CAD FILE 102615 SCALE N/A SIZE A 2233

FSCM NO. 53919

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches
 TOLERANCES ARE: [mm]
 .XX ±.01 [±.25]
 .XXX ±.001 [±.025]

* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.