



A/B Coaxial Electromechanical Relay Switch,
 DC to 1,000 MHz, 5W, 12V, N

Electromechanical Relay Switches Technical Data Sheet

PE7102

Features

- A/B Coaxial Relay Switch
- DC to 1 GHz
- Insertion Loss 0.7 dB max
- Isolation 50 dB min
- Max Power 5 Watts (CW)

Applications

- Test & Measurement
- Communications System
- Instrumentation

Description

The PE7102 is an A/B coaxial relay switch that operates from DC to 1 GHz and has a rating of 5 Watts input power (CW). Electrical performance includes 0.7 dB max insertion loss, 50 dB min isolation with +12 Vdc operating voltage. Performance is guaranteed over -20°C to +60°C and the switch assembly is RoHS compliant. The package interface uses solder terminals and N female connectors.

Electrical Specifications

Switch Type A/B Coaxial
 Switching Sequence Break Before Make

| Description | Minimum | Typical | Maximum | Units |
|------------------------------|---------|---------|---------|--------|
| Frequency Range | DC | | 1,000 | MHz |
| Impedance | | 50 | | Ohms |
| Operating Voltage | | 12 | | Volts |
| Actuating Current @ 12 Volts | | | 45 | mA |
| VSWR | | | 1.6:1 | |
| Insertion Loss | | | 0.7 | dB |
| Isolation | 50 | | | dB |
| Input Power (CW) | | | 5 | Watts |
| Switching Time | | | 15 | ms Max |

Electrical Specification Notes:
 Max input power rated for common to switched port.
 Max power of 0.5W (CW) for switched to common port.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [A/B Coaxial Electromechanical Relay Switch, DC to 1,000 MHz, 5W, 12V, N PE7102](#)



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Mechanical Specifications

Size

| | |
|----------------|----------------------|
| Length | 2.88 in [73.15 mm] |
| Width/Diameter | 1.5 in [38.1 mm] |
| Height | 0.88 in [22.35 mm] |
| Weight | 0.378 lbs [171.46 g] |
| Package Type | Connectorized |

Connectors

| | |
|-------------------|------------|
| RF Connector Type | N Female |
| Control Connector | Solder Pin |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -20 to +60 deg C |
| Storage Range | -30 to +100 deg C |

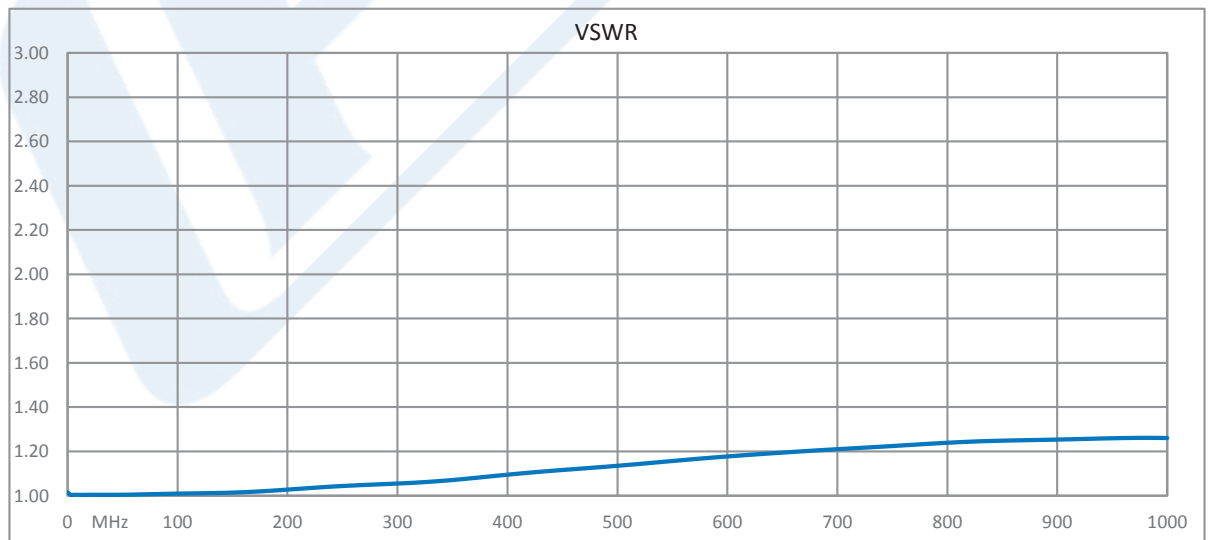
| | |
|----------|---------------------------|
| Humidity | 95% relative humidity max |
|----------|---------------------------|

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



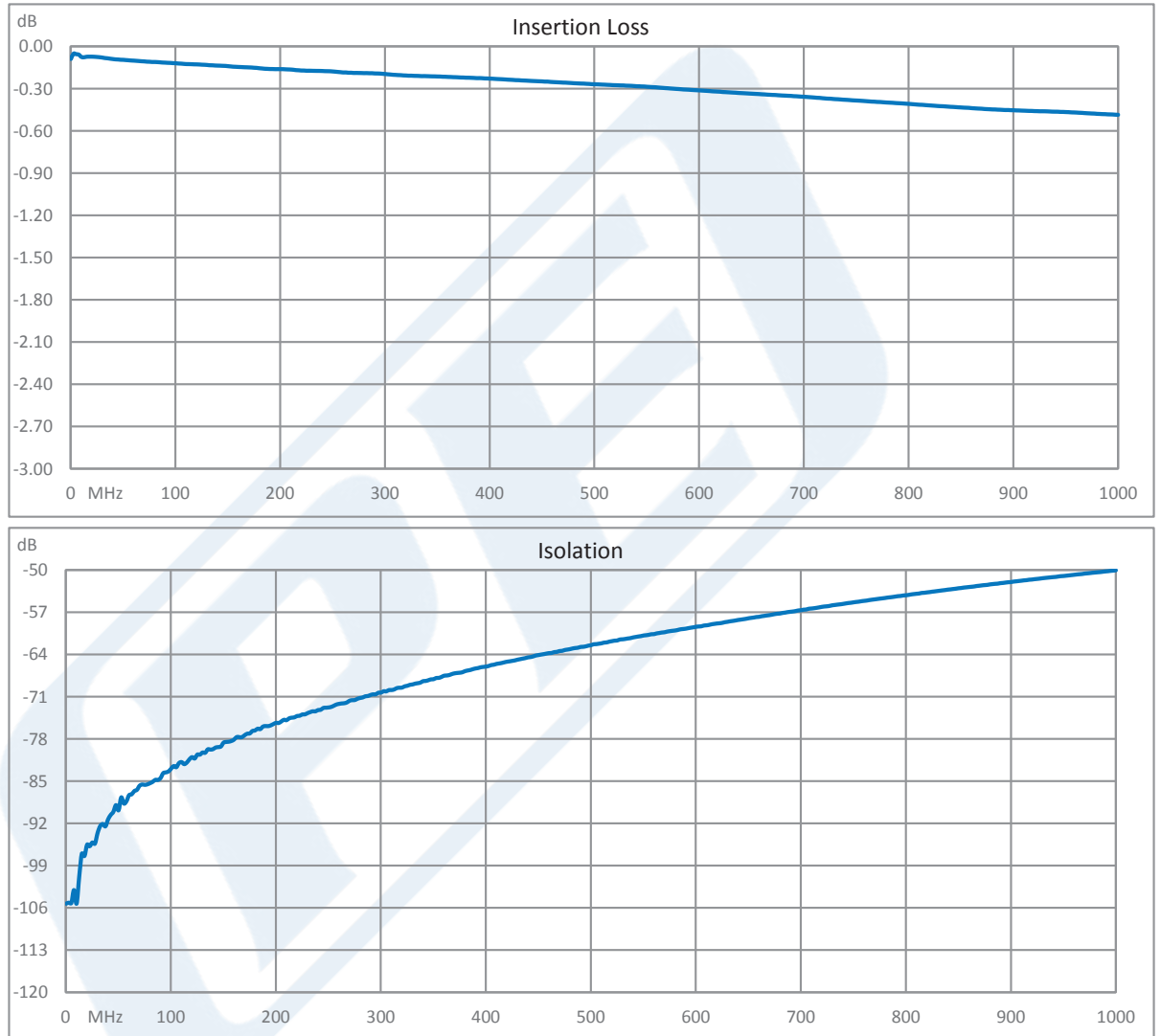
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A/B Coaxial Electromechanical Relay Switch, DC to 1,000 MHz, 5W, 12V, N from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

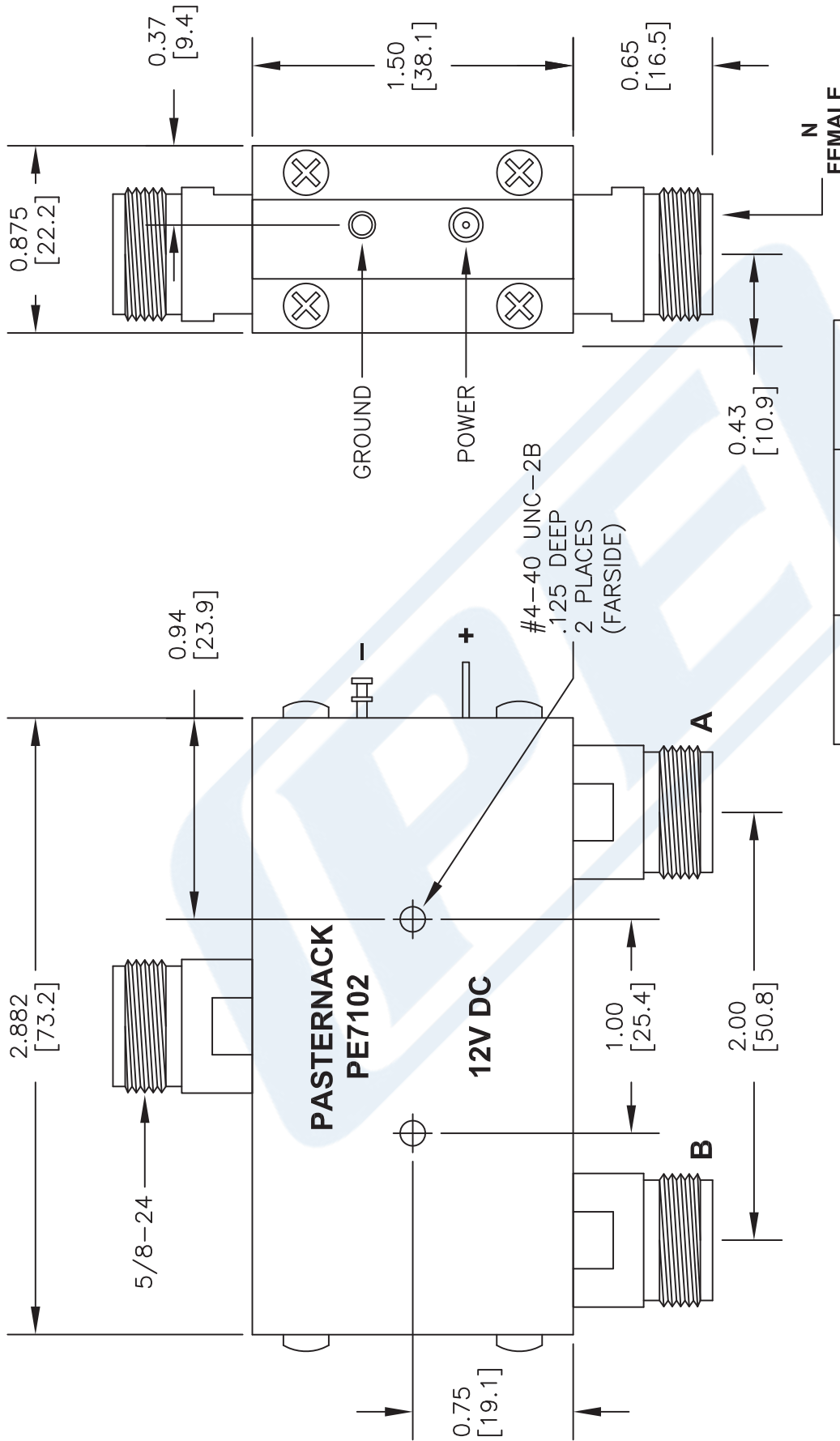
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [A/B Coaxial Electromechanical Relay Switch, DC to 1,000 MHz, 5W, 12V, N PE7102](https://www.pasternack.com/n-electromechanical-ab-coaxial-switch-1ghz-5watts-12volts-pe7102-p.aspx)

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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.

PE7102 CAD Drawing

A/B Coaxial Electromechanical Relay Switch, DC to 1,000 MHz, 5W, 12V, N



| ACTIVE PORT | CONNECTED GROUND | DC POWER |
|-------------|------------------|----------|
| A | YES | OFF |
| B | YES | ON |

STANDARD TOLERANCES
 DECIMAL ±0.03
 .XX ±0.010
 .XXX ±0.010

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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
PE7102

FSCM NO. 53919

CAD FILE 050516

SCALE N/A

SIZE A

3045

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 THE ENGINEER'S RF SOURCE

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