



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

Electromechanical Relay Switches Technical Data Sheet

PE7100

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 PE7100 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 BNC 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, BNC PE7100](#)



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

Electromechanical Relay Switches Technical Data

PE7100

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	0.277 lbs [125.65 g]
Package Type	Connectorized

Connectors

RF Connector Type	BNC Female
Control Connector	Solder Pin

Environmental Specifications

Temperature

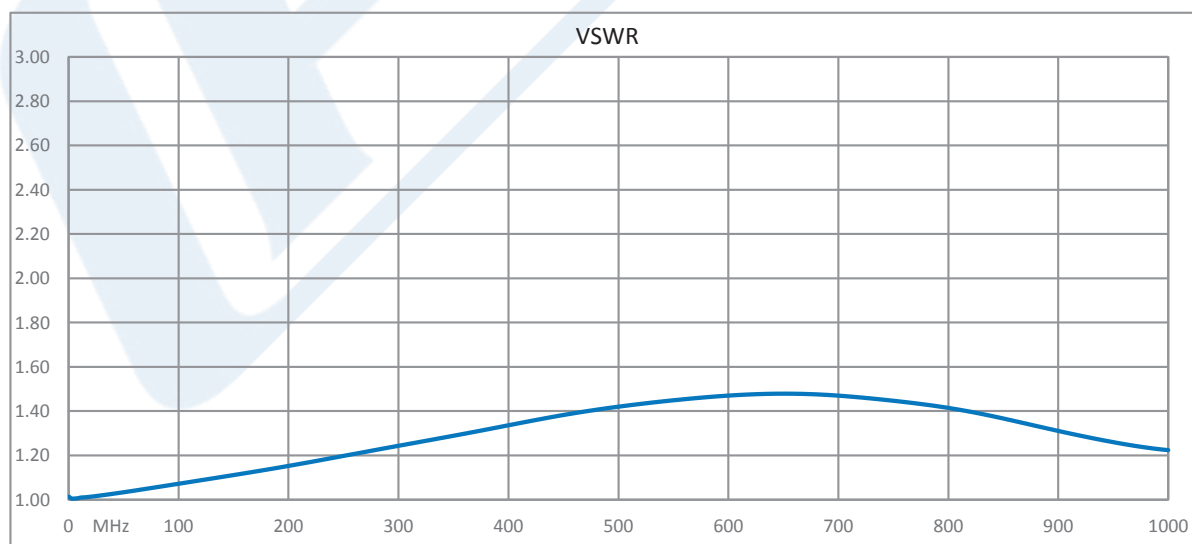
Operating Range	-20 to +60 deg C
Storage Range	-30 to +100 deg C
Humidity	95% relative humidity max

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

Plotted and Other Data

Notes:

Typical Performance Data



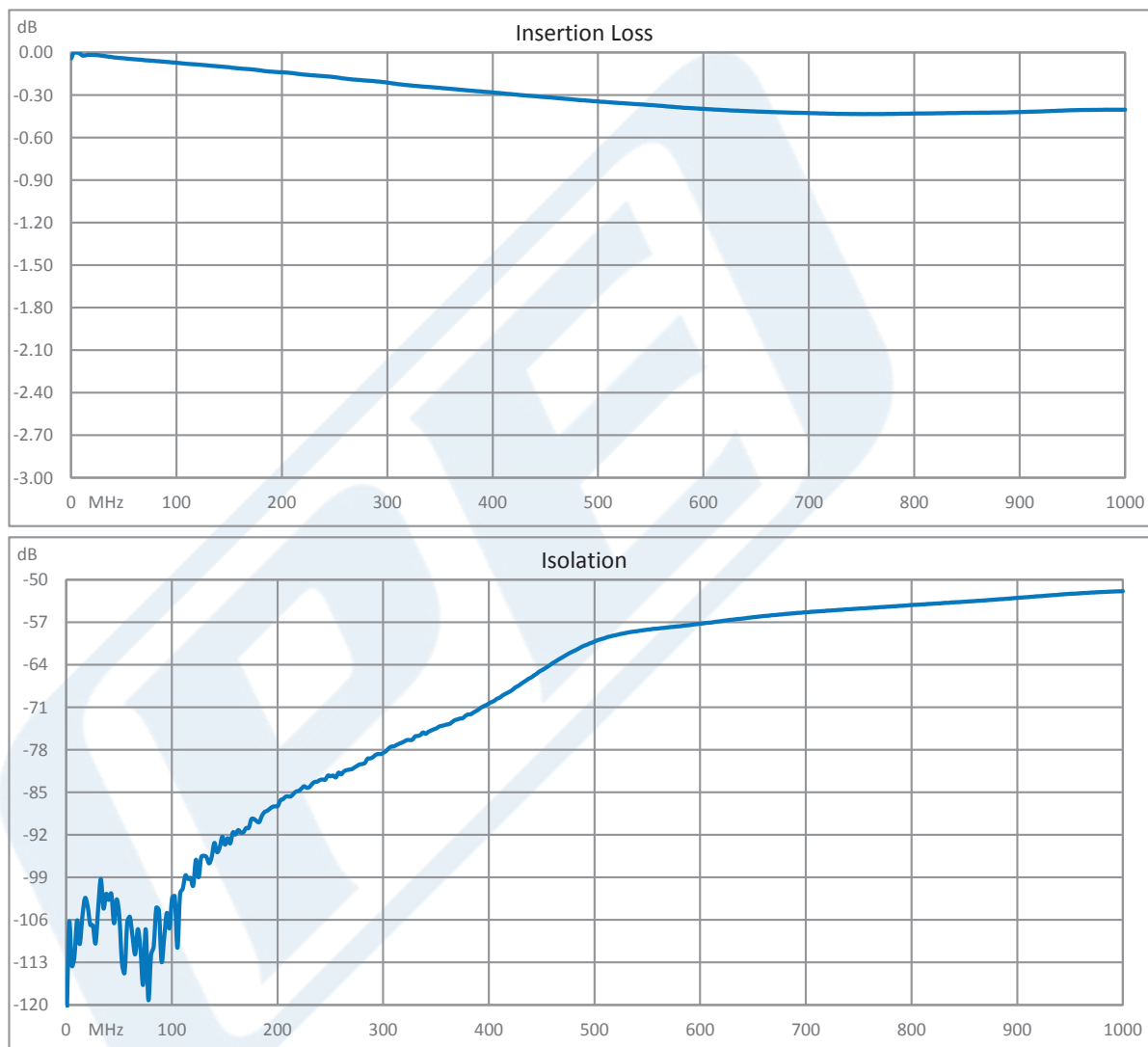
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [A/B Coaxial Electromechanical Relay Switch, DC to 1,000 MHz, 5W, 12V, BNC PE7100](#)



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

Electromechanical Relay Switches Technical Data

PE7100



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, BNC PE7100](#)



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

Electromechanical Relay Switches Technical Data

PE7100

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

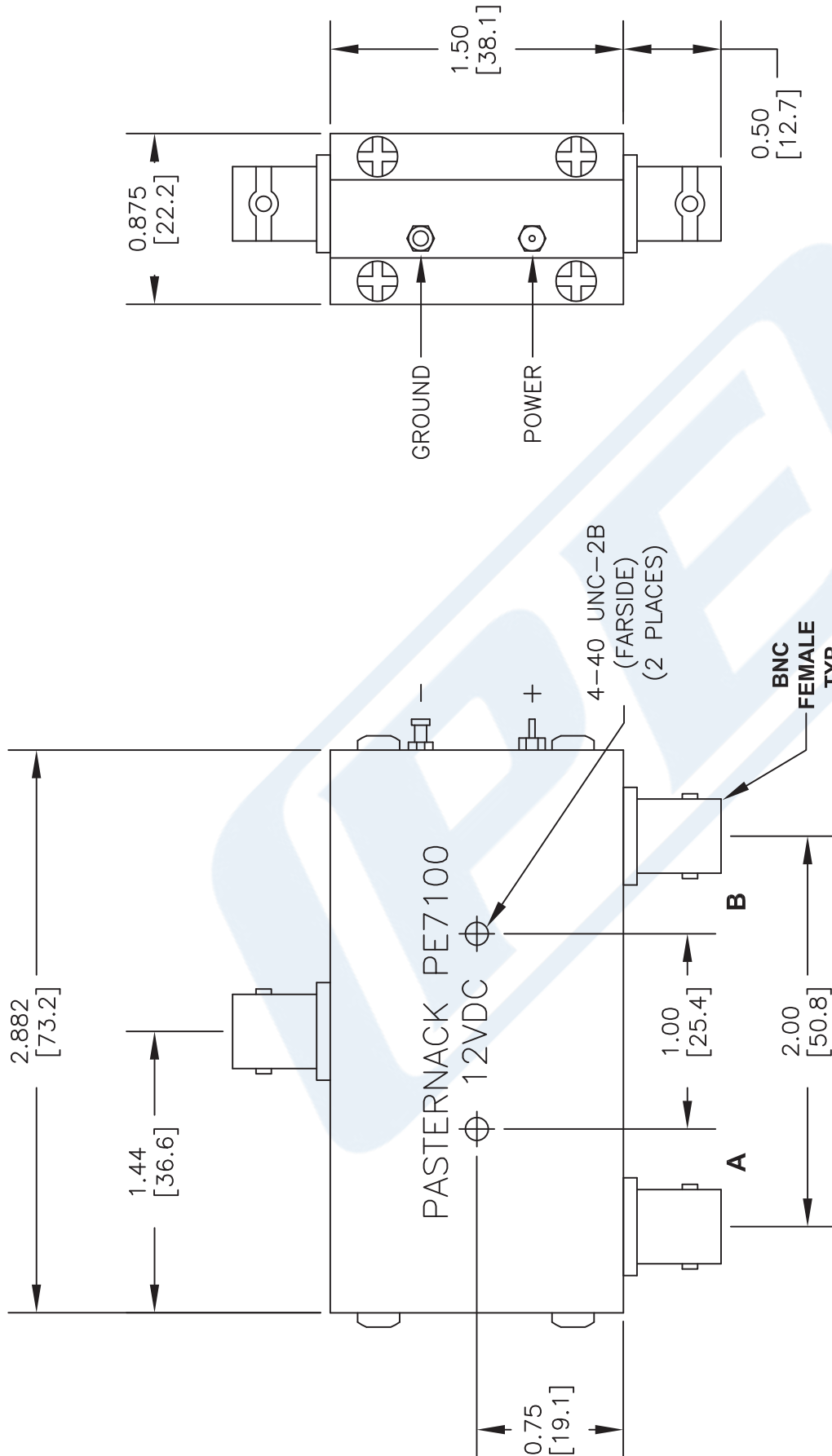
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [A/B Coaxial Electromechanical Relay Switch, DC to 1,000 MHz, 5W, 12V, BNC PE7100](https://www.pasternack.com/bnc-electromechanical-ab-coaxial-switch-1ghz-5watts-12volts-pe7100-p.aspx)

URL: <https://www.pasternack.com/bnc-electromechanical-ab-coaxial-switch-1ghz-5watts-12volts-pe7100-p.aspx>

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.

PE7100 CAD Drawing

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



STANDARD TOLERANCES

.X	±0.2
.XX	±0.1
.XXX	±0.05

*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

PE7100

FSCM NO. 53919

3045

SIZE A

SCALE N/A

CAD FILE 050416

PE PASTERNAK
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

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