



75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 12V, BNC

Electromechanical Relay Switches Technical Data Sheet

PE7176

Features

- 75 Ohm A/B Coaxial Electromechanical Relay Switch
- DC to 1 GHz
- Insertion Loss 0.7 dB Max
- Isolation 65 dB typ
- Switching Speed 10 msec typ.
- Max Power 10 Watts (CW)
- BNC Female Connectors
- RoHS Compliant Assembly

Applications

- Test & Measurement
- Instrumentation
- Multiplex Transmission Systems
- Wired & Wireless Communications System
- Industrial Equipment
- Entertainment Equipment

Description

The PE7176 is a 75 Ohm A/B coaxial electromechanical relay switch that operates from DC to 1 GHz and has a rating of 10 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. The Internal solder assembly consists of a non-latching mechanical relay module and impedance matching networks. The switch module is ruggedly built and guaranteed to meet up to 95% relative humidity.

Electrical Specifications

Switch Type A/B Coaxial
Switching Sequence Break Before Make

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		75		Ohms
Operating Voltage		12		Volts
Actuating Set Current @ 12 Volts		35	45	mA
VSWR		1.75:1	2:1	
Insertion Loss			0.7	dB
Isolation	50			dB
Input Power (CW)			10	Watts
Switching Time		<10	15	ms Typ

Electrical Specification Notes:

Max input power rated for common to switched port.
Input Power - Contact Switching (CW) 1 Watt Maximum
Input Power - Contact Carrying (CW) 10 Watts Maximum
Input Power - Switch Port to 50 Ohm Load (CW) 0.5 Watts Maximum

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 12V, BNC PE7176](#)



75 Ohm A/B Coaxial Electromechanical Relay
Switch, DC to 1 GHz, 10W, 12V, BNC

Electromechanical Relay Switches Technical Data

PE7176

Mechanical Specifications

Size

Length	2.88 in [73.15 mm]
Width/Diameter	1.5 in [38.1 mm]
Height	0.995 in [25.27 mm]
Weight	0.2635 lbs [119.52 g]
Package Type	Connectorized

Connectors

RF Connector Type	BNC Female
Control Connector	Solder Pin

Mechanical Specification Notes:

BNC Female is a Filtered Feed-Thru 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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 12V, BNC PE7176](#)

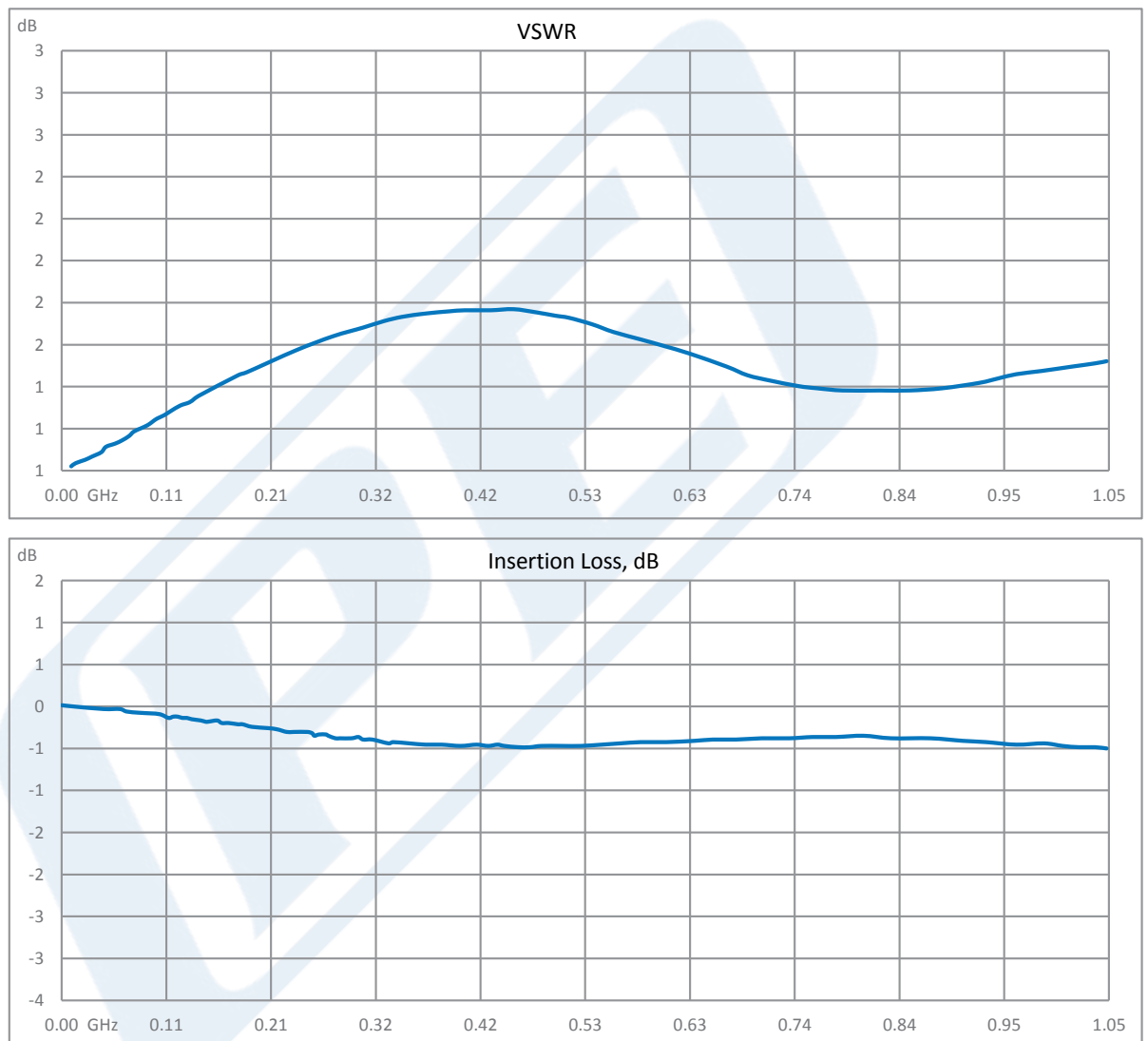


75 Ohm A/B Coaxial Electromechanical Relay
Switch, DC to 1 GHz, 10W, 12V, BNC

Electromechanical Relay Switches Technical Data

PE7176

Typical Performance Data



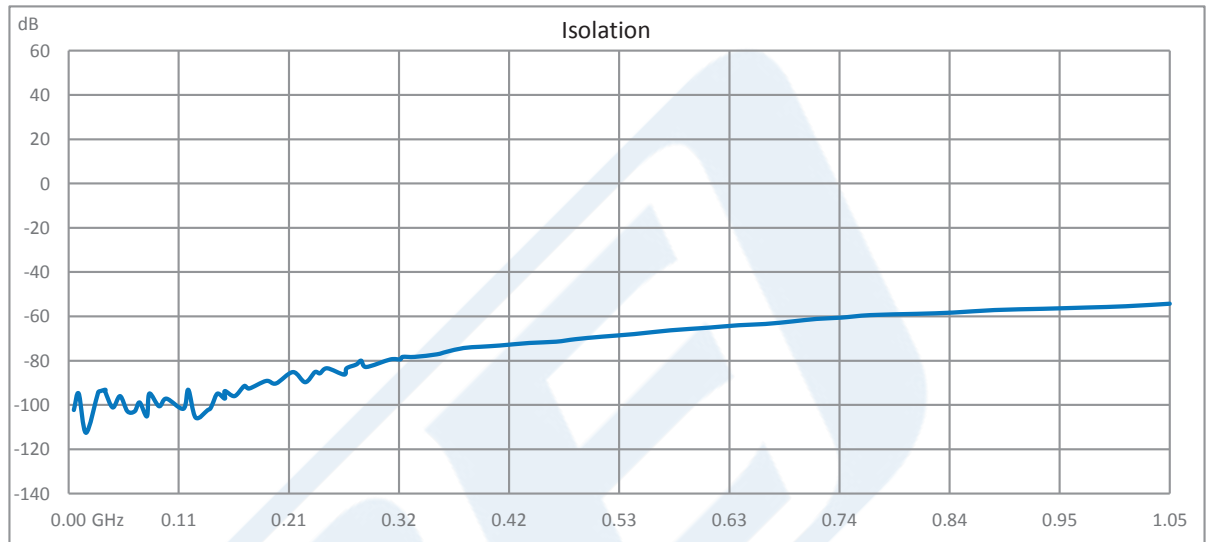
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 12V, BNC PE7176](#)



75 Ohm A/B Coaxial Electromechanical Relay
Switch, DC to 1 GHz, 10W, 12V, BNC

Electromechanical Relay Switches Technical Data

PE7176



75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 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: [75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 12V, BNC PE7176](#)

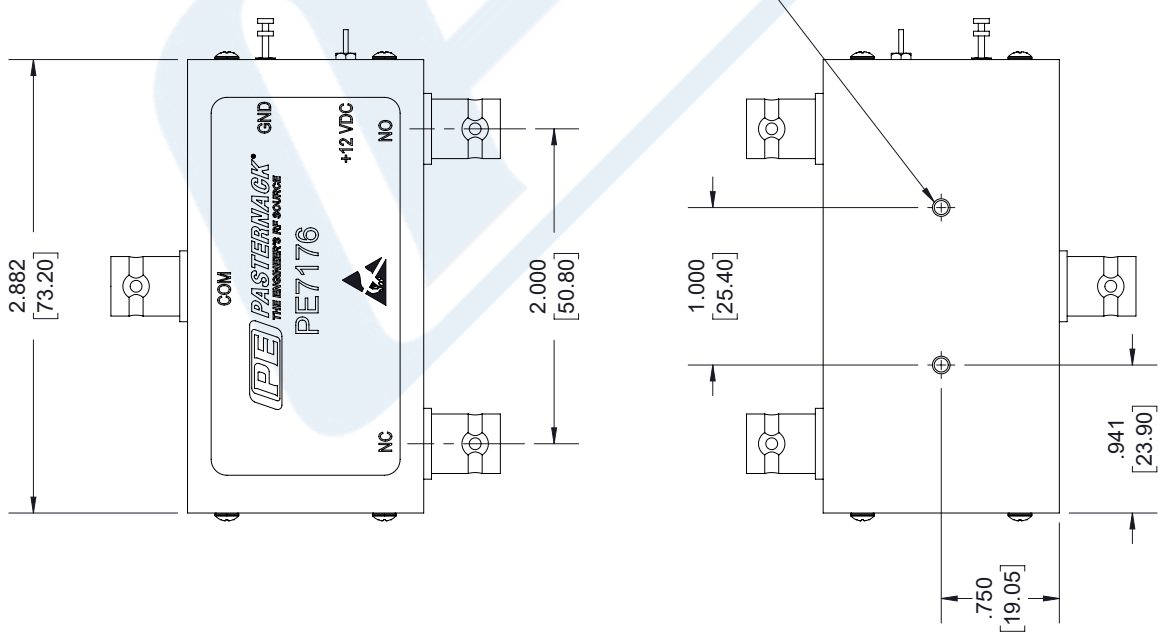
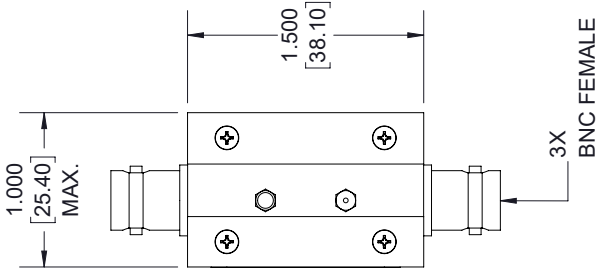
URL: <https://www.pasternack.com/75-ohm-ab-coaxial-electromechanical-relay-switch-1-ghz-10w-12v-bnc-pe7176-p.aspx>

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.

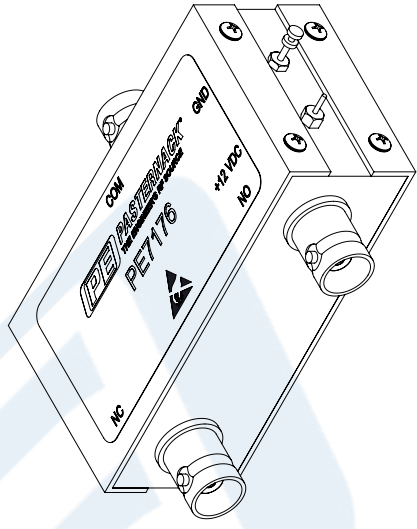
PE7176 CAD Drawing

75 Ohm A/B Coaxial Electromechanical Relay Switch, DC to 1 GHz, 10W, 12V, BNC

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/04/19	J.GARCIA



2X #4-40 THREAD
 ∇ .100 [2.54] MAX.
 MOUNTING HOLES.



UNLESS OTHERWISE SPECIFIED
 LEADING DIMENSIONS ARE INCHES
 DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 X±.2 [5.08] FRACTIONS
 .XX±.01 [.25] ±.132
 .XXX±.005 [.13] ANGLES ± 1°

ALL DIMENSIONS SHOWN
 ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

PE PASTERNAK
 an INFINITO brand

Pasternack Enterprises, Inc.
 P.O. Box 16759, Irvine, CA 92623.
 Phone: 1.949.261.1920 | 1.866.727.8376
 Fax: 1.949.261.7451
 www.pasternack.com | e-mail: sales@pasternack.com

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1
 SCALE N/A

SIZE A
 CAGE 53919
 DRAWN BY K.DANG
 PART NUMBER PE7176
 REV A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.