

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



PE7102

Features

- A/B Coaxial Electromechanical Relay Switch
- DC to 1 GHz
- Insertion Loss 0.3 dB typ
- Isolation 65 dB typ
- Max Power 5 Watts (CW)
- Female N Connectors

Applications

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

Description

The PE7102 is an A/B coaxial Electromechanical 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. The package interface uses solder terminals and N female connectors. The Internal solder assembly consists of a non-latching mechanical relay module and impedance matching networks.

Electrical Specifications (TA = +25°C, DC Voltage = 12 Vdc)

Switch Type: A/B Coaxial
Switching Sequence: Break Before Make

Description	Min	Typ	Max	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts			45	mA
VSWR		1.2:1	1.6:1	
Insertion Loss		0.3	0.7	dB
Isolation	50	62		dB
Input Power (CW)			5	Watts
Switching Time			15	ms

Electrical Specification Notes:

- Max input power rated for common to switched port.
- Max power of 0.5W (CW) for switched to common port.

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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

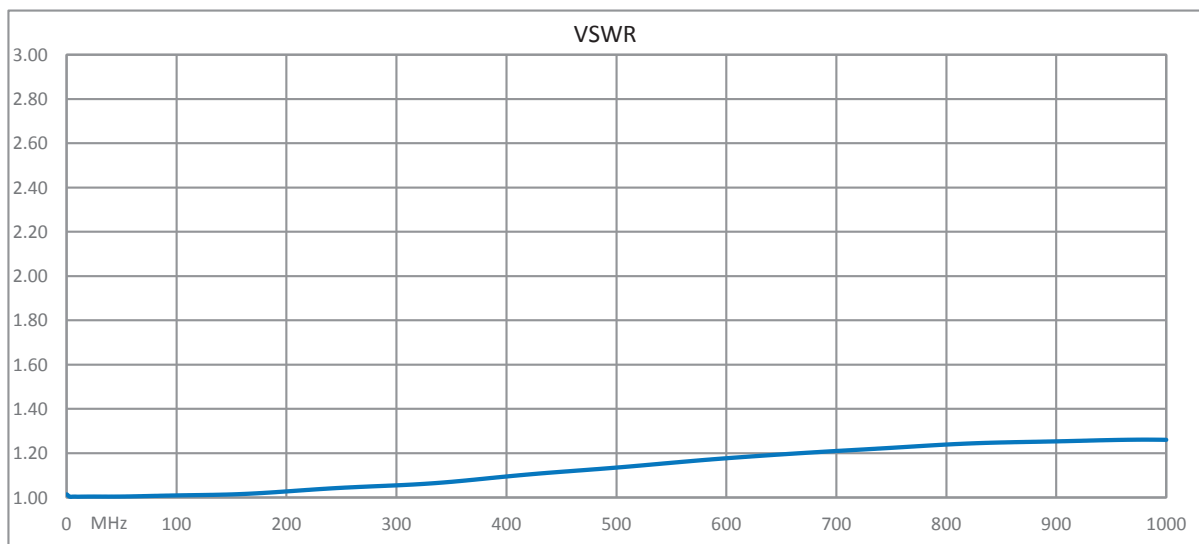
Operating Range	-20 to +60 deg C
Storage Range	-30 to +100 deg C
Humidity	95% relative humidity max

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

Plotted and Other Data

Notes:

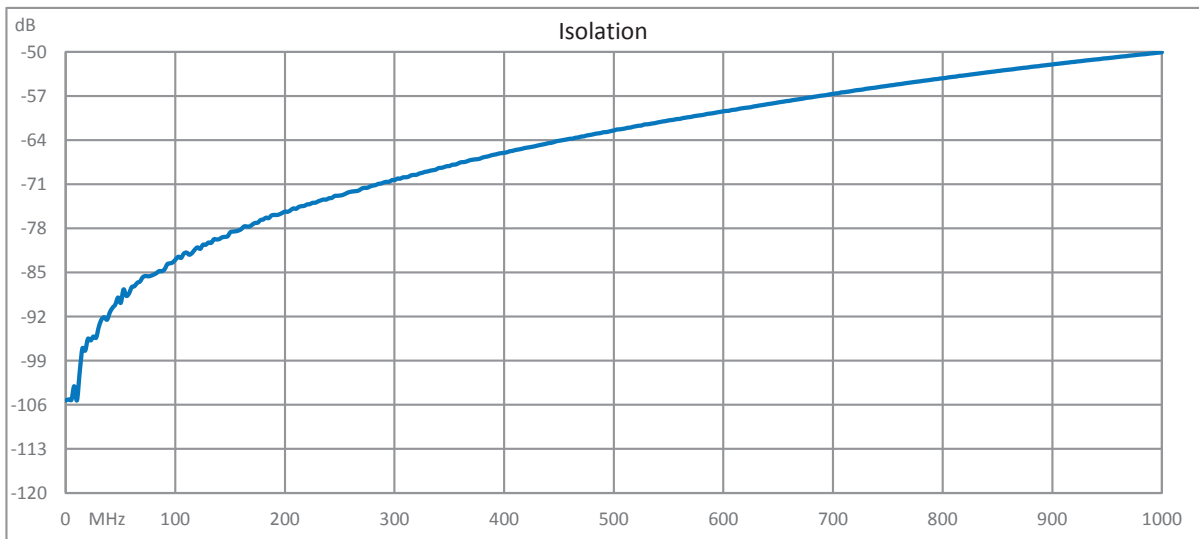
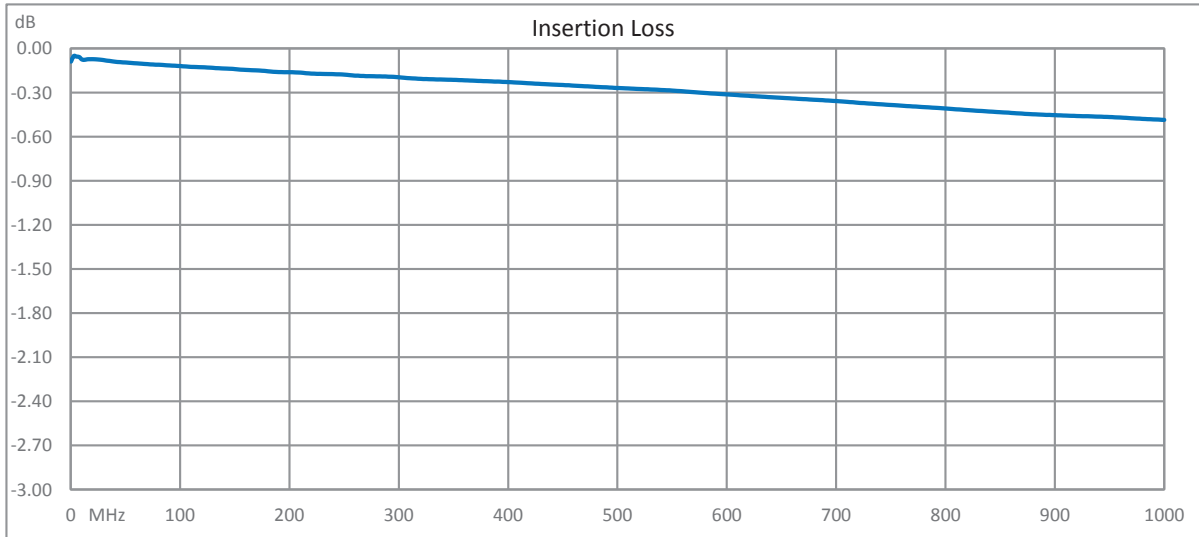
Typical Performance Data



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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](#)

URL: <https://www.pasternack.com/n-electromechanical-ab-coaxial-switch-1ghz-5watts-12volts-pe7102-p.aspx>

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PE7102 CAD Drawing

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