



SPDT Electromechanical Relay Failsafe Switch,
DC to 50 GHz, up to 80W, 28V, 2.4mm

Electromechanical Relay Switches Technical Data Sheet

PE71S6329

Features

- Single Pole Double Throw (SPDT) Relay Switch
- DC to 50 GHz Frequency Range
- 2M Cycle Operating Life Min
- Failsafe Actuator
- Insertion Loss 0.3 dB typ
- Isolation 90 dB typ
- 80 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

Description

The PE71S6329 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 50 GHz and can handle up to 80 Watts of CW input power in a Break Before Make condition. The design features a Failsafe Actuator and is rated for 2M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -25°C to +70°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and 2.4mm Female connectors.

Electrical Specifications (TA = +25°C, DC Voltage = 28 Vdc)

Switch Type
Actuator Type
Switching Sequence

SPDT
Failsafe
Break Before Make

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Set Current @ 28 Volts		104		mA
Insertion Loss			0.3	dB
Input Power (CW)			80	Watts
Switching Time			10	ms Max

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SPDT Electromechanical Relay Failsafe Switch, DC to 50 GHz, up to 80W, 28V, 2.4mm PE71S6329](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 to 18	18 to 26.5	26.5 to 50	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	1.9:1	
Insertion Loss, Max	0.3	0.4	0.5	0.7	1.1	dB
Isolation, Min	70	60	60	55	50	dB
Input Power, Max (CW)	80	60	50	20	5	Watts

Mechanical Specifications

Size

Length	1.5 in [38.1 mm]
Width/Diameter	1.5 in [38.1 mm]
Height	0.5 in [12.7 mm]
Weight	0.1695 lbs [76.88 g]
Body Material and Plating	Aluminum, Nickel
Package Type	Connectorized
Operating Life	2,000,000 Cycles

Connectors

RF Connector Type	2.4mm Female
RF Connector Contact Material and Plating	Beryllium Copper, Gold
RF Connector Body Material and Plating	Passivated Stainless Steel
Control Connector	Solder Pin

Environmental Specifications

Temperature

Operating Range	-25 to 70 deg C
Storage Range	-40 to 85 deg C

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

Plotted and Other Data

Notes:

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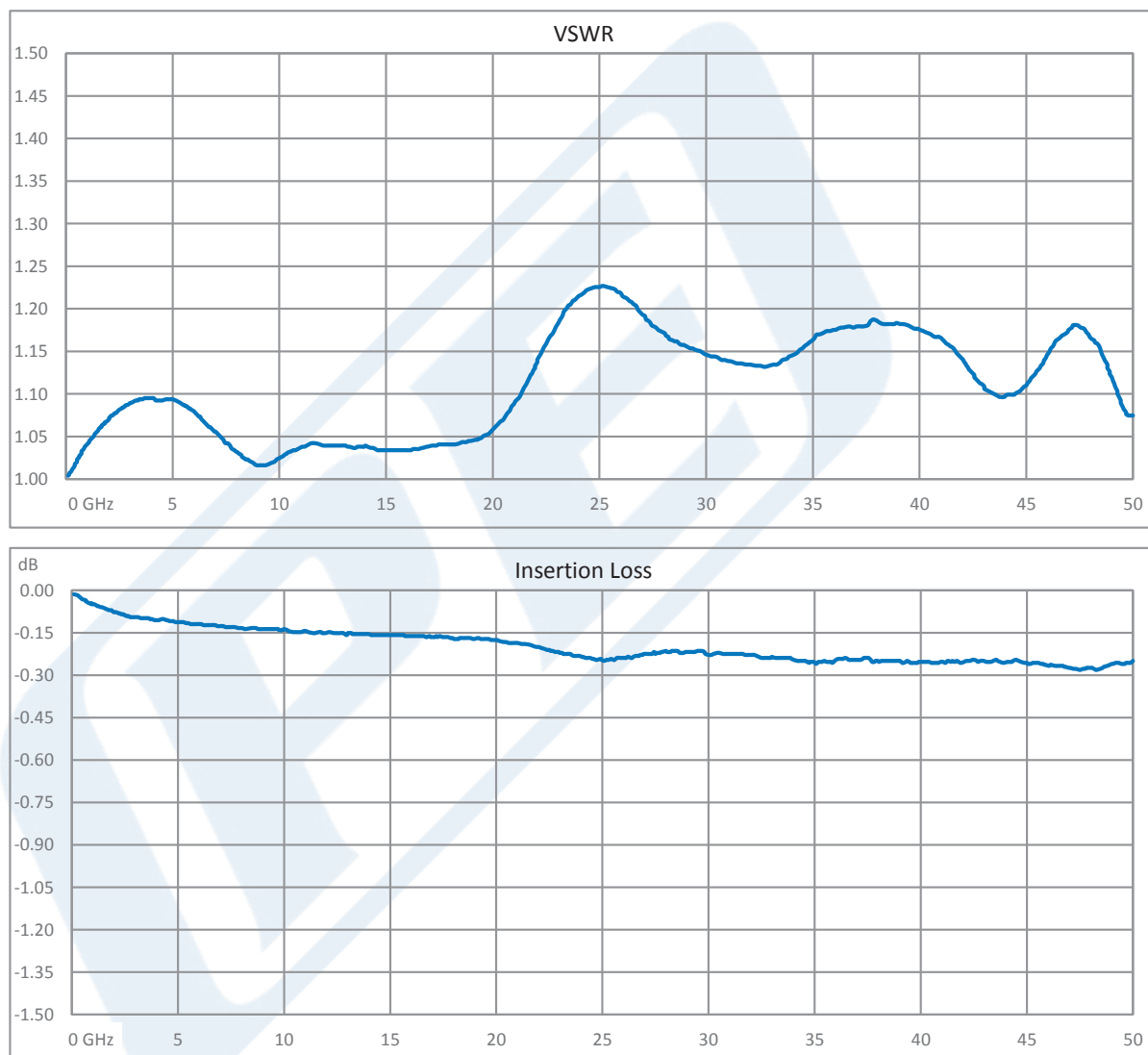


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Typical Performance Data



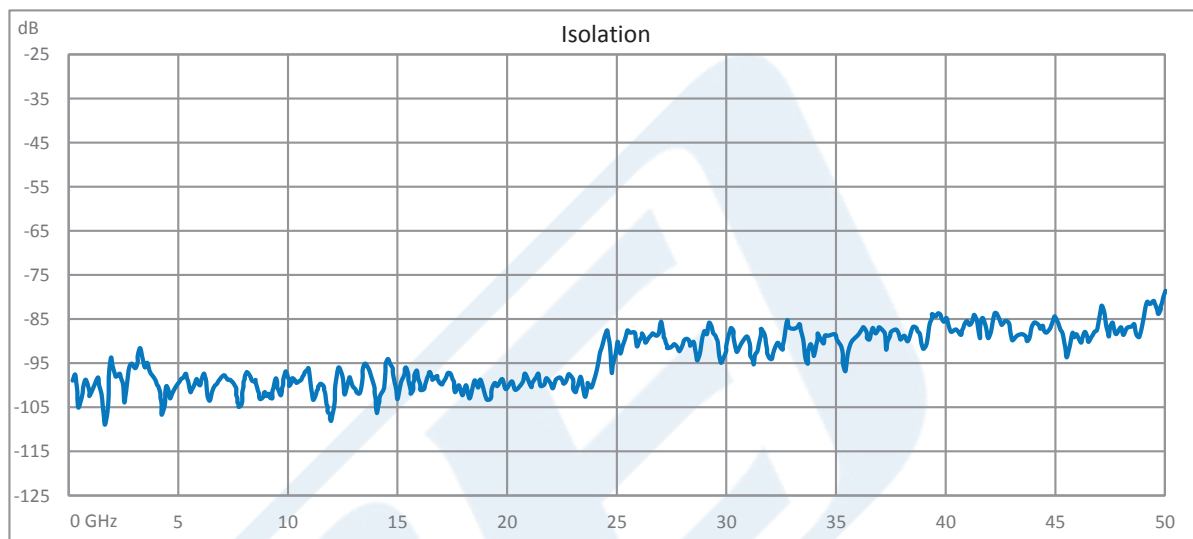
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SPDT Electromechanical Relay Failsafe Switch, DC to 50 GHz, up to 80W, 28V, 2.4mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

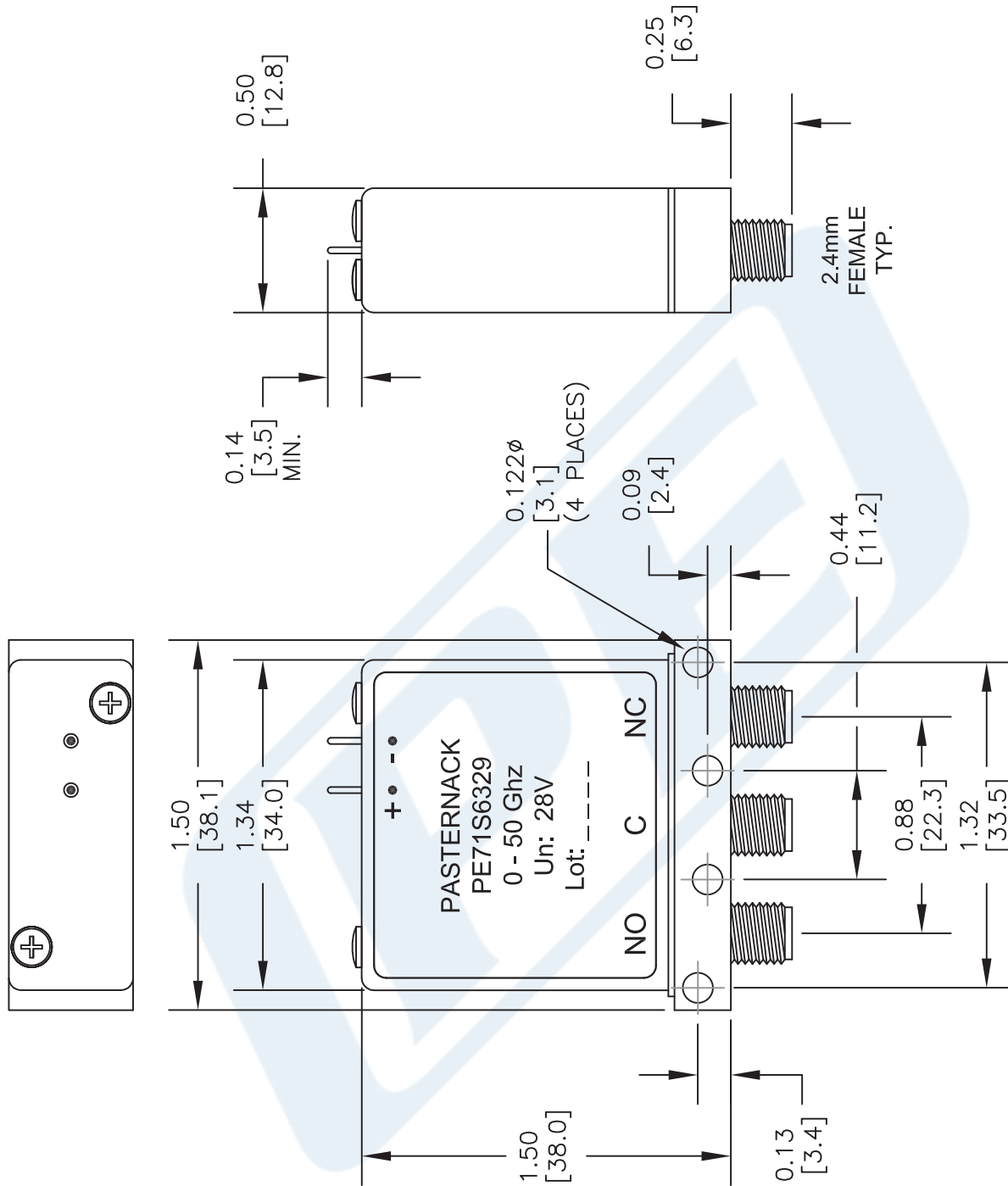
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URL: <https://www.pasternack.com/2.4mm-spd-electromechanical-relay-failsafe-switch-pe71s6329-p.aspx>

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.

PE71S6329 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch, DC to 50 GHz, up to 80W, 28V, 2.4mm



STANDARD TOLERANCES
DECIMAL
±0.02

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE71S6329

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].

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

CAGE CODE 53919

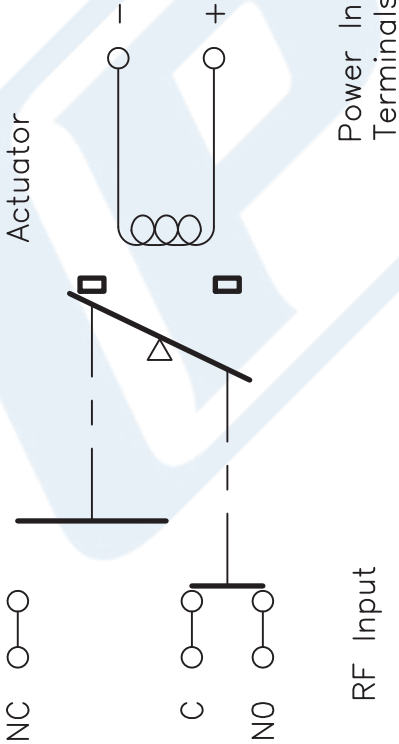
CAD FILE 022717

SCALE N/A

SIZE A

2233

Position Energized:



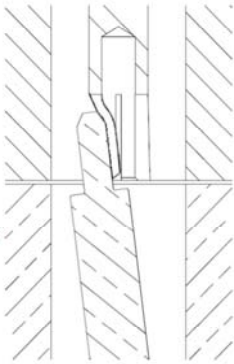
Voltage	RF Continuity
De-energized	C ↔ NC
energized	C ↔ NO

SCHEMATIC DIAGRAM

STANDARD TOLERANCES DECIMAL ±0.02

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

WARNING
Sensitive connector : To avoid irreversible damage during any connexions, ensure that the center contact is aligned with the female socket



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DWG TITLE	CAGE CODE	53919
PE71S6329		
CAD FILE	022717	SCALE N/A
SIZE A	2233	

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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