



SPDT Electromechanical Relay Pulse Latching Switch,  
DC to 8 GHz, 200W, 28V, Indicators, Hot Switching, N

## Electromechanical Relay Switches Technical Data Sheet

**PE7149**

### Electrical Specifications

Switch Type SPDT, Reflective  
Actuator Type Pulse Latching  
Actuator Options Indicators, Hot Switching

| Description                  | Minimum | Typical | Maximum | Units |
|------------------------------|---------|---------|---------|-------|
| Frequency Range              | DC      |         | 8       | GHz   |
| Impedance                    |         | 50      |         | Ohms  |
| Operating Voltage            | 24      | 28      | 32      | Volts |
| Actuating Current @ 28 Volts |         |         | 127     | mA    |
| VSWR                         |         |         | 1.45:1  |       |
| Insertion Loss               |         |         | 0.4     | dB    |
| Isolation                    | 60      |         |         | dB    |
| Input Power (CW)             |         |         | 200     | Watts |

### Performance by Frequency

| Description           | F1      | F2     | F3     | F4 | F5 | Units |
|-----------------------|---------|--------|--------|----|----|-------|
| Frequency Range       | DC to 2 | 2 to 4 | 4 to 8 |    |    | GHz   |
| VSWR, Max             | 1.2:1   | 1.35:1 | 1.45:1 |    |    |       |
| Insertion Loss, Max   | 0.2     | 0.35   | 0.4    |    |    | dB    |
| Isolation, Min        | 80      | 70     | 60     |    |    | dB    |
| Input Power, Max (CW) | 375     | 275    | 200    |    |    | Watts |

### Mechanical Specifications

Size  
Length 2.5 in [63.5 mm]  
Width/Diameter 2.9 in [73.66 mm]  
Height 1 in [25.4 mm]  
Weight 0.473 lbs [214.55 g]  
Body Material and Plating Aluminum, Black Anodized  
Package Type Connectorized  
Operating Life 300,000 Cycles  
Operating Life (Hot Switching) 100,000 Cycles  
Switching Time 20 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 Pulse Latching Switch, DC to 8 GHz, 200W, 28V, Indicators, Hot Switching, N PE7149](#)



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### Connectors

RF Connector Type  
RF Connector Specification  
RF Connector Contact Material and Plating  
RF Connector Body Material and Plating  
Control Connector

N Female  
MIL-C-39012  
Beryllium Copper, Gold  
Passivated Stainless Steel  
Solder Terminals

### Environmental Specifications

#### Temperature

Operating Range  
Storage Range

-30 to +70 deg C  
-55 to +100 deg C

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

### Plotted and Other Data

Notes:

SPDT Electromechanical Relay Pulse Latching Switch, DC to 8 GHz, 200W, 28V, Indicators, Hot Switching, 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.

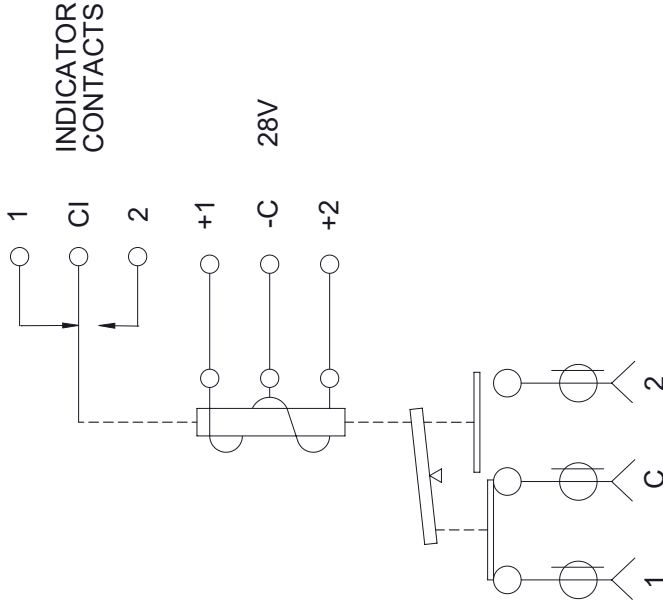
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SPDT Electromechanical Relay Pulse Latching Switch, DC to 8 GHz, 200W, 28V, Indicators, Hot Switching, N PE7149](#)

URL: <https://www.pasternack.com/n-spd-electromechanical-relay-switch-8-ghz-indicators-hot-switches-pe7149-p.aspx>

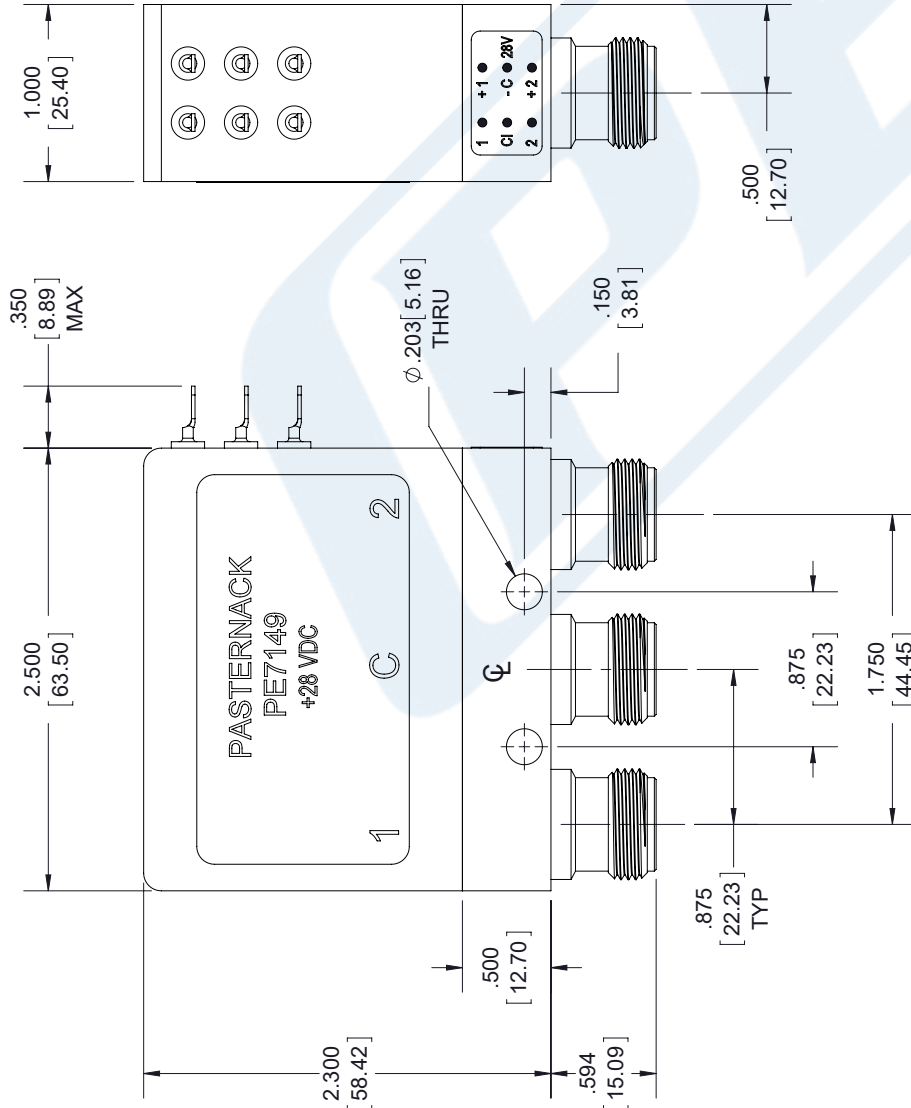
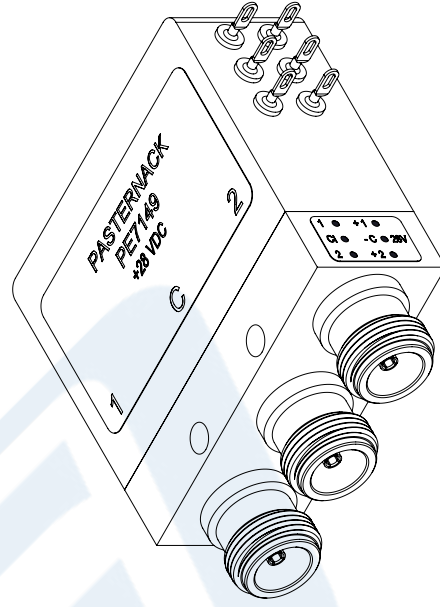
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE7149 CAD Drawing

SPDT Electromechanical Relay Pulse Latching Switch, DC to  
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SCHEMATIC SHOWN IN POSITION 1  
(+1 LAST ENERGIZED)



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE7149

CAGE CODE 53919

CAD FILE 072117

SCALE N/A

SIZE A

9999

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].