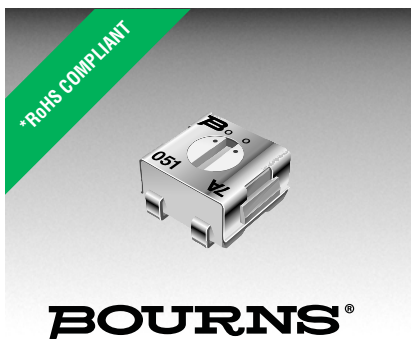




## Features

- Single pole/double throw
- Compatible with most surface mount manufacturing processes
- 50 or 2000 cycle rotational life
- Compatible with popular vacuum pick-and-place equipment
- J-hook, gull-wing and through hole
- Meets EIA/EIAJ/IPC/VRCI SMD standard outline dimensions
- RoHS compliant\* - see [processing information](#) on RoHS compliant surface mount components
- For switch applications/processing guidelines, [click here](#)

## 7814 SMD 4 mm Square Sealed Rotary Switch

### Electrical Characteristics

Contact Rating  
Maximum Current ..... 100 mA max.  
Maximum Voltage ..... 16 V  
Contact Timing ..... Non-shorting  
Contact Resistance ..... 2 ohms max.  
Insulation Resistance  
..... 100 megohms min.  
Dielectric Strength ..... 250 VAC

### General Characteristics

Switch Type ..... SPDT  
Operating Temp. Range  
..... -55 °C to +125 °C  
Storage Temp. Range... -55 °C to +125 °C  
Seal Test ..... 85 °C Fluorinert†

### Mechanical Characteristics

Positions ..... 2  
Adjustment Torque ..... 1.8 N-cm max.  
Stop Strength ..... 2.5 N-cm min.  
Pushover Strength (Z Style)  
..... 2 kilograms minimum  
Weight ..... Approximately 0.2 gm.  
Marking ..... Manufacturer's trademark, life code and date code

### Environmental Characteristics

Vibration ..... 20 G  
Shock ..... 100 G  
Thermal Shock ..... (5 cycles)  
..... -55 °C to +125 °C

Humidity  
Insulation Resistance  
..... 10 megohms min.

Rotational Life  
-051 ..... 50 Cycles  
-023 ..... 2000 Cycles

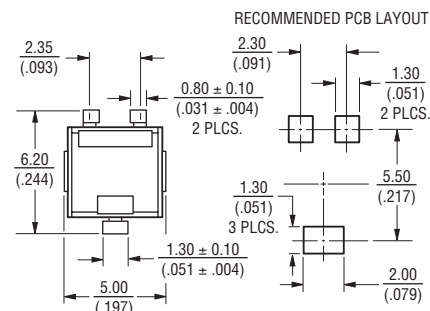
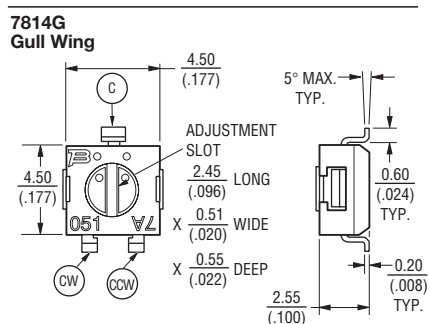
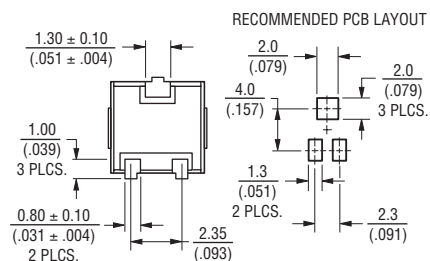
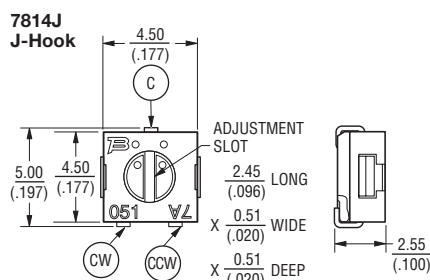
Packaging Options  
J & G ..... 500 pcs.  
Z ..... 200 pcs.  
H ..... 100 pcs./tube

### How to Order

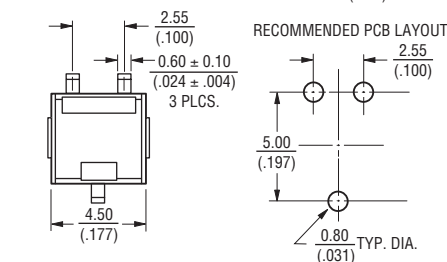
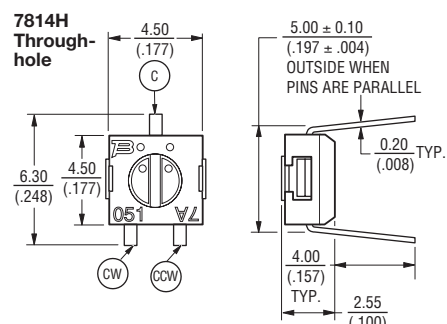
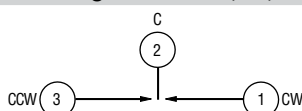
**7814 J - 1 - 051 E**

Model \_\_\_\_\_  
Terminal \_\_\_\_\_  
J = J-Hook  
G = Gull Wing  
H = Through-hole  
Z = Right Angle  
Switch Type \_\_\_\_\_  
1 = SPDT  
Rotational Life \_\_\_\_\_  
-051 = 50 Cycles  
-023 = 2000 Cycles  
Optional Embossed Tape Designator  
(For pin styles J, G, Z only - omit for tube packaging)

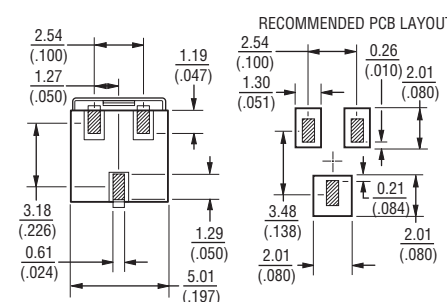
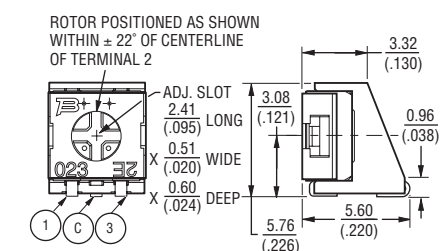
### Product Dimensions



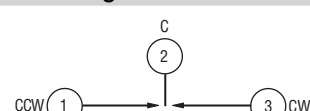
### Circuit Diagram - 7814J, G, H



### 7814Z Right Angle



### Circuit Diagram - 7814Z



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$   
TOLERANCES:  $\pm 2$  EXCEPT WHERE NOTED.

\*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

†"Fluorinert" is a registered trademark of 3M Co.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.