

*ROHS COMPLIANT



BOURNS®

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 lead free surface mount components

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

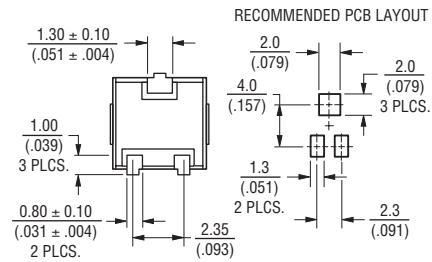
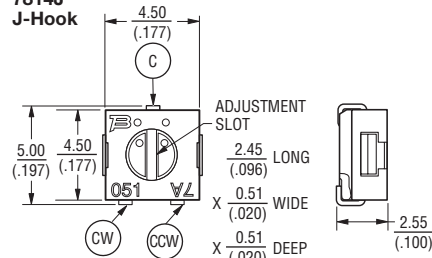
How to Order

7814 J - 1 - 051 E

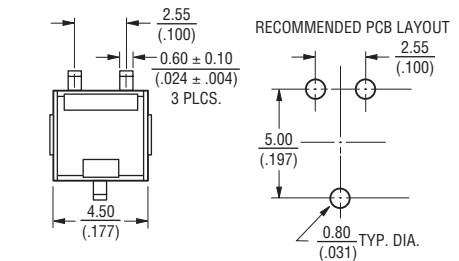
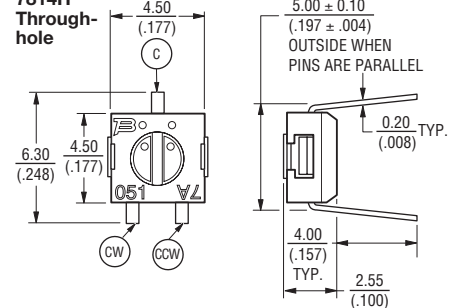
Model _____
 Terminal _____
 J = J-Hook
 G = Gull Wing
 H = Through-hole
 Z = Right Angle
 Switch Type _____
 1 = SPDT
 Rotational Life _____
 -051 = 50 Cycles
 -023 = 2000 Cycles
 Optional Embossed Tape Designator
 (For pin styles J, G, Z only - omit for tube packaging)

Product Dimensions

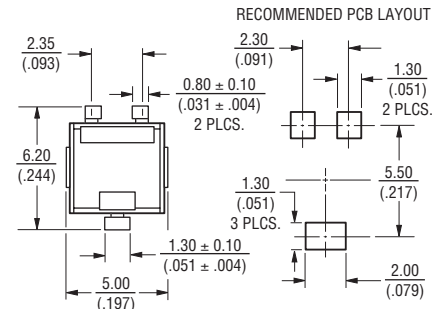
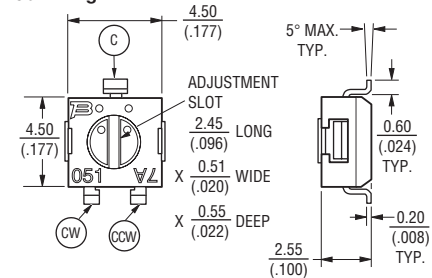
7814J J-Hook



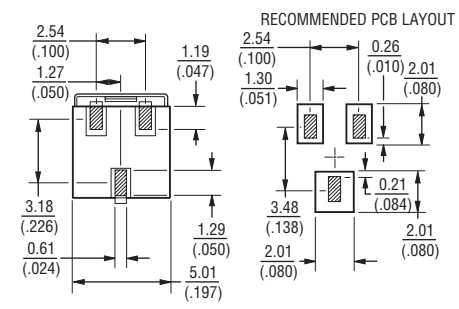
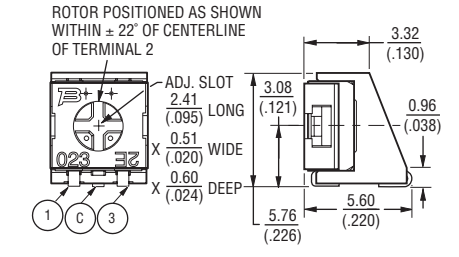
7814H Through-hole



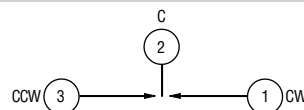
7814G Gull Wing



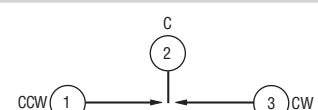
7814Z Right Angle



Circuit Diagram - 7814J, G, H



Circuit Diagram - 7814Z



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

TOLERANCES: ±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.

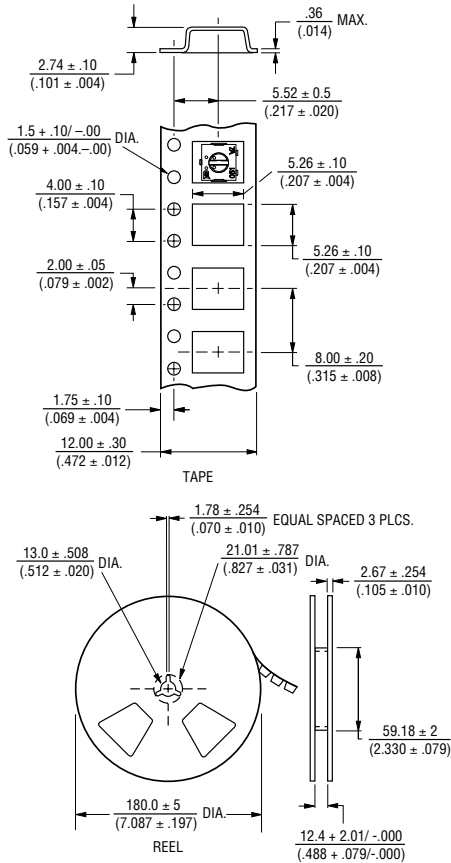
Customers should verify actual device performance in their specific applications

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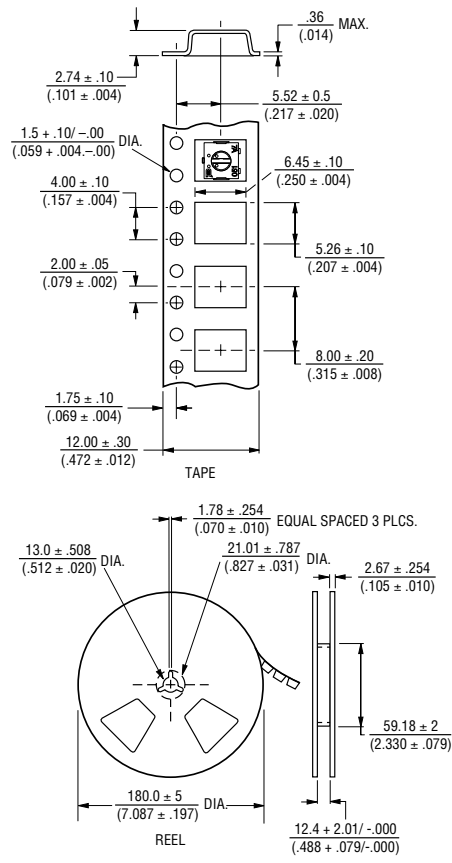
Packaging Specifications

(J Style)



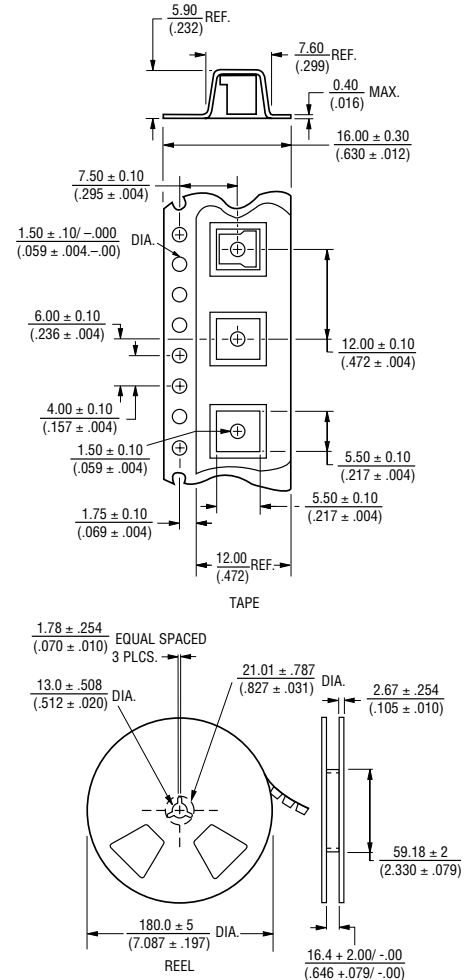
Meets EIA specification 481.

(G Style)



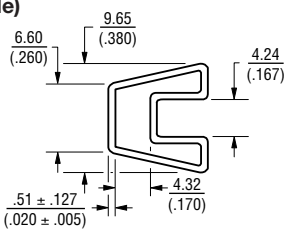
Meets EIA specification 481.

(Z Style)



Meets EIA Specification 481.

(H Style)



TUBE LENGTH - 525MM.
UNITS PACKAGED 100 PIECES PER TUBE.

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$