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Features

- Single pole/double throw
- Compatible with most surface mount manufacturing processes
- 50 or 2000 cycle rotational life
- Tape and reel packaged
- RoHS compliant* - see processing information on RoHS compliant surface mount components
- For switch applications/processing guidelines, click here

7813 SMD 3 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 Temperature Range
.....-55 °C to +125 °C
Storage Temperature Range
.....-55 °C to +125 °C
Seal Test.....85 °C Fluorinert†

Mechanical Characteristics

Positions.....2
Adjustment Torque..... .5 N-cm max.
Stop Strength.....1.8 N-cm min.

Environmental Characteristics

Shock.....20 G
0.1 ms max. discontinuity
Vibration ..... 100 G
0.1 ms max. discontinuity
Thermal Shock .....(5 cycles)
-55 °C to +125 °C
Humidity
Insulation Resistance
..... 10 megohms min.
Rotational Life
-051 ..... 50 Cycles
-023 ..... 2000 Cycles
Standard Packaging
J..... 1,000 pcs./reel
S ..... 200 pcs./reel

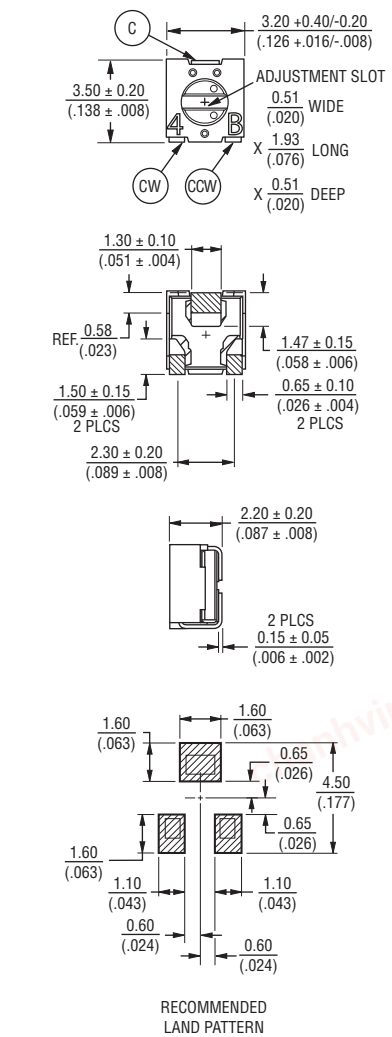
How to Order

7813 J - 1 - 051 E

Model
Terminal
Switch Type
1 = SPDT
Rotational Life
-051 = 50 Cycles
-023 = 2000 Cycles
Embossed Tape
E = 1000 Pcs./180 mm Reel (J Style)
200 Pcs./180 mm Reel (S Style)

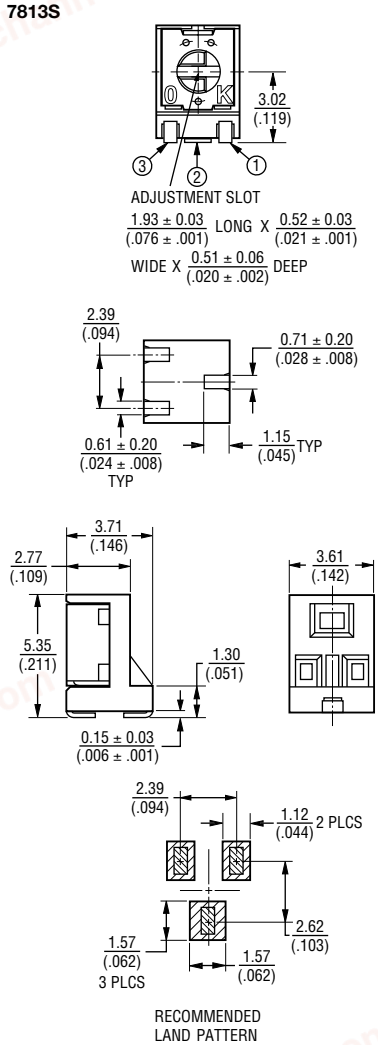
Product Dimensions

7813J



RECOMMENDED
LAND PATTERN

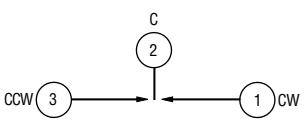
7813S



RECOMMENDED
LAND PATTERN

DIMENSIONS: MM / (INCHES)

TOLERANCES: ±2 EXCEPT WHERE NOTED.



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
†"Fluorinert" is a registered trademark of 3M Co.

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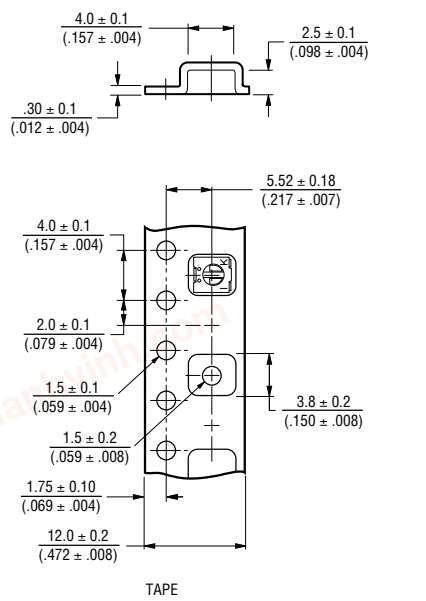
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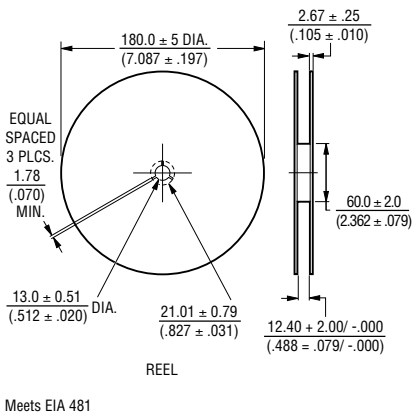
7813 SMD 3 mm Square Sealed Rotary Switch

BOURNS®

Packaging Specifications

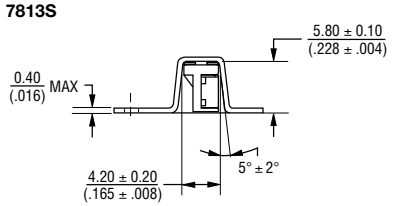
7813J

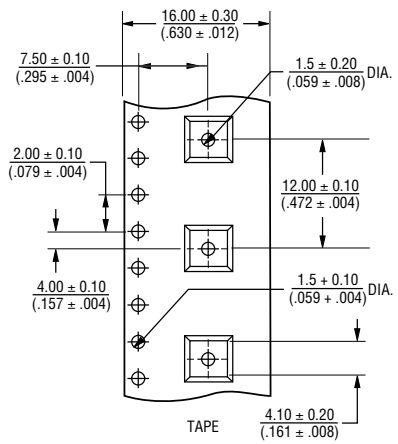


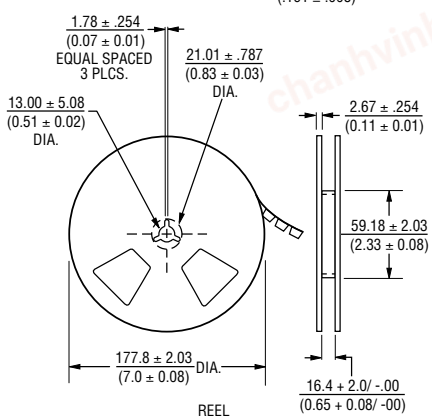


Meets EIA 481

7813S







Meets EIA 481

DIMENSIONS: MM / (INCHES)

REV. 04/12

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