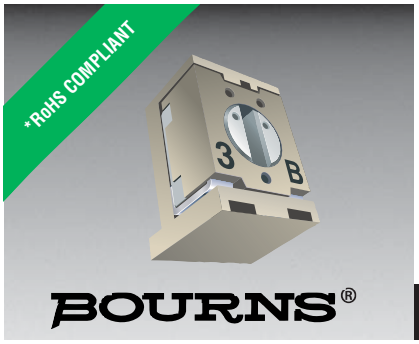


BOURNS®

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 lead free surface mount components

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

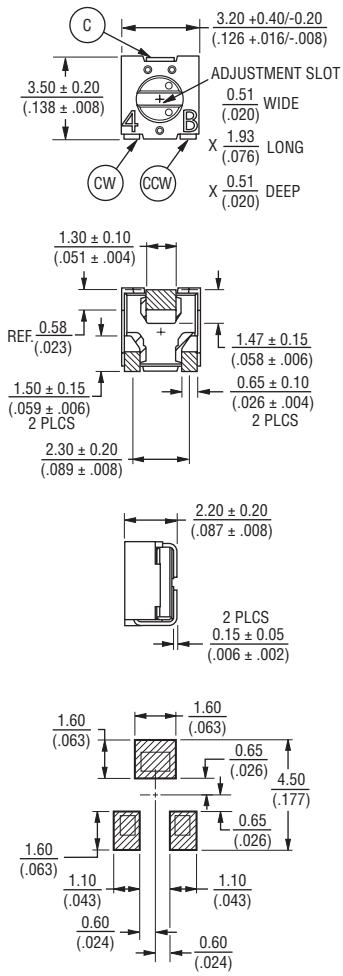
How to Order

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)

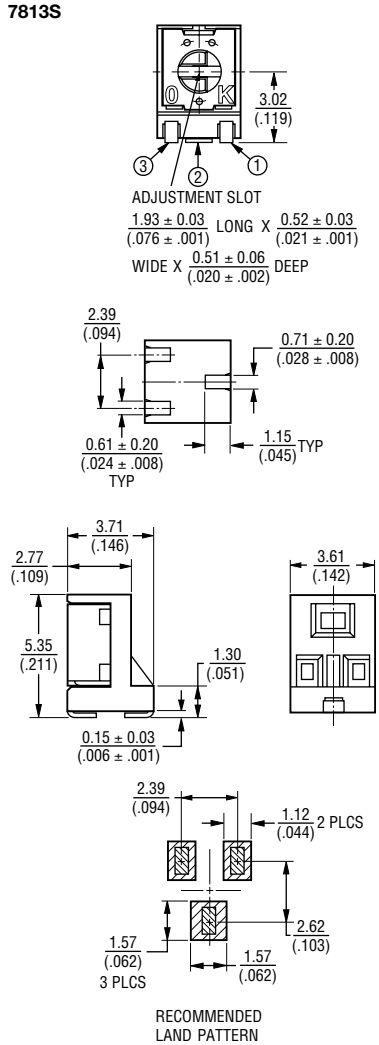
Product Dimensions

7813J



RECOMMENDED
LAND PATTERN

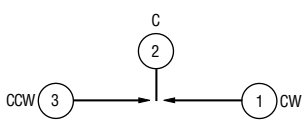
7813S



RECOMMENDED
LAND PATTERN

DIMENSIONS: MM / (INCHES)

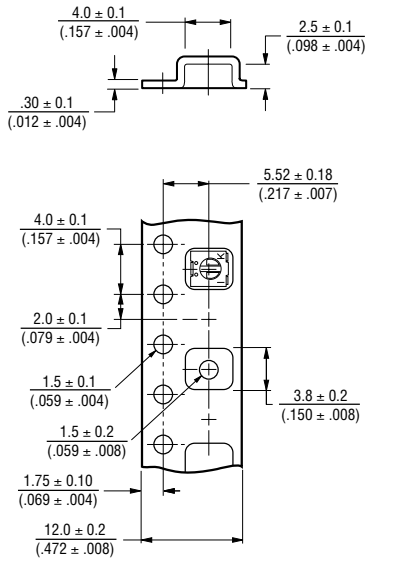
TOLERANCES: ±2 EXCEPT WHERE NOTED.

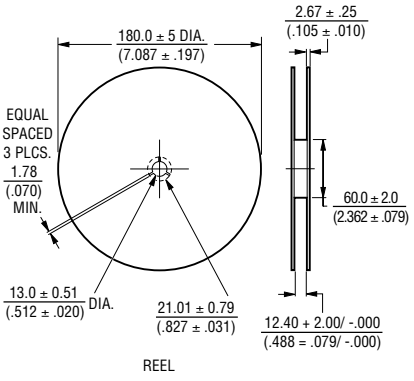


*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
†"Fluorinert" is a registered trademark of 3M Co.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications

Packaging Specifications

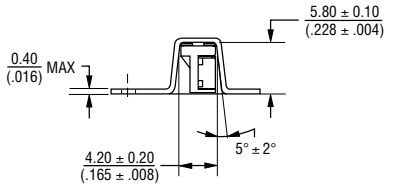
7813J

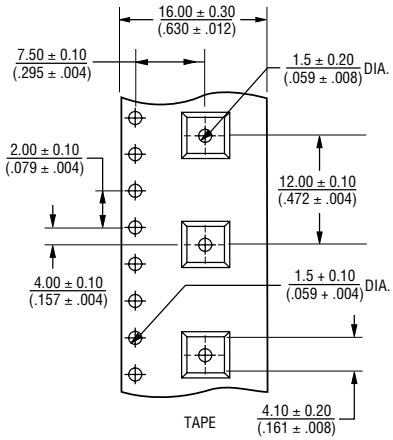


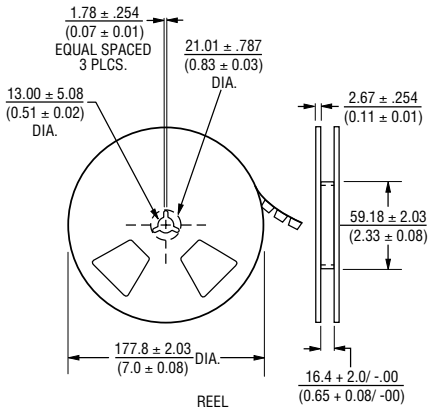


Meets EIA 481

7813S







Meets EIA 481

DIMENSIONS: MM / (INCHES)

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Customers should verify actual device performance in their specific applications