



U.S. Patent No. 5043695

Electrical Characteristics

Contact Rating
 Maximum Current100 mA max.
 Maximum Voltage16 V
 Contact Timing.....Non-shorting
 Contact Resistance2 ohms max.
 Insulation Resistance
100 megohms min.
 Dielectric Strength250 VAC

General Characteristics

Switch TypeSPDT
 Operating Temperature Range
-55 °C to +125 °C
 Storage Temperature Range
-55 °C to +125 °C
 Seal Test85 °C Fluorinert†

Mechanical Characteristics

Positions2
 Adjustment Torque......5 N-cm max.
 Stop Strength.....1.8 N-cm min.

Environmental Characteristics

Shock20 G
 0.1 ms max. discontinuity
 Vibration100 G
 0.1 ms max. discontinuity
 Thermal Shock(5 cycles)
 -55 °C to +125 °C
 Humidity
 Insulation Resistance
10 megohms min.
 Rotational Life
 -05150 Cycles
 -0232000 Cycles
 Standard Packaging
 J1,000 pcs./reel
 S200 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)

Features

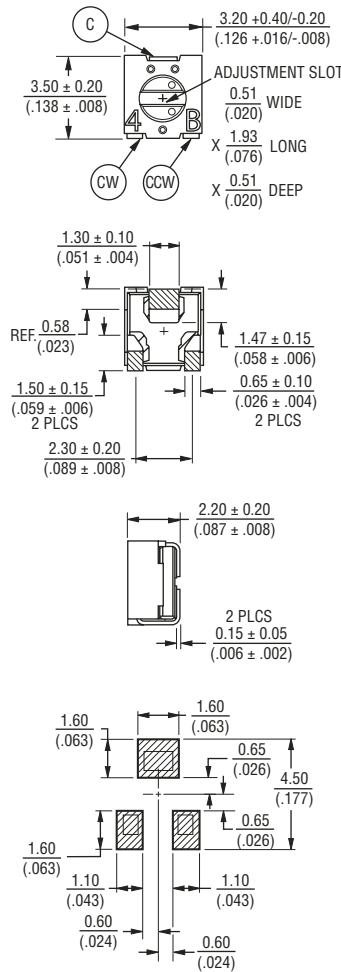
- Single pole/double throw
- Compatible with most surface mount manufacturing processes
- 50 or 2000 cycle rotational life
- Tape and reel packaged

- RoHS compliant* - see [processing information on lead free surface mount components](#)

7813 SMD 3 mm Square Sealed Rotary Switch

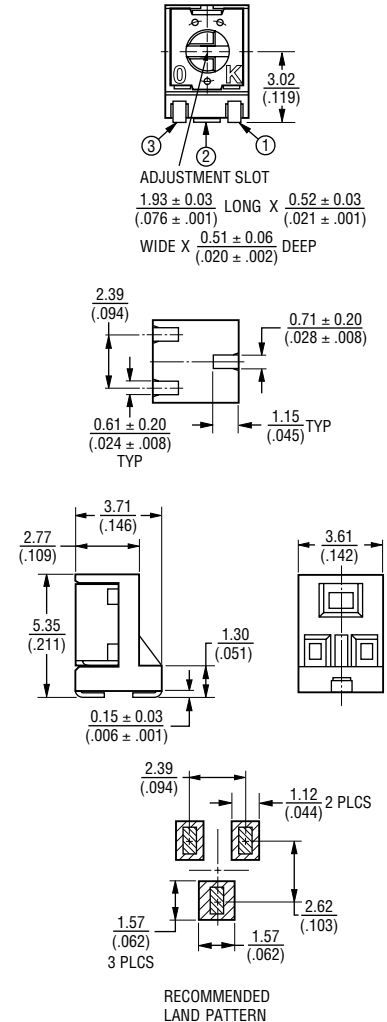
Product Dimensions

7813J



RECOMMENDED
LAND PATTERN

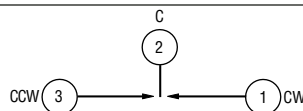
7813S



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

TOLERANCES: -.2 EXCEPT WHERE NOTED.



*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Fluorinert is a registered trademark of 3M Co.

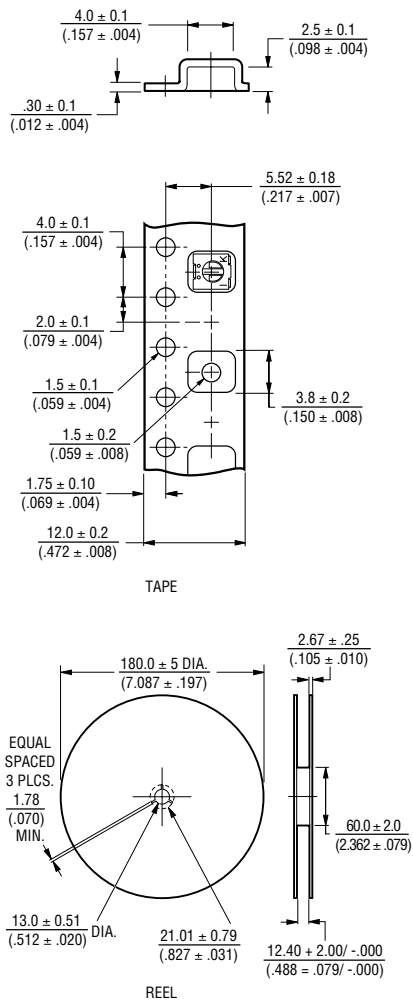
Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

7813 SMD 3 mm Square Sealed Rotary Switch

BOURNS®

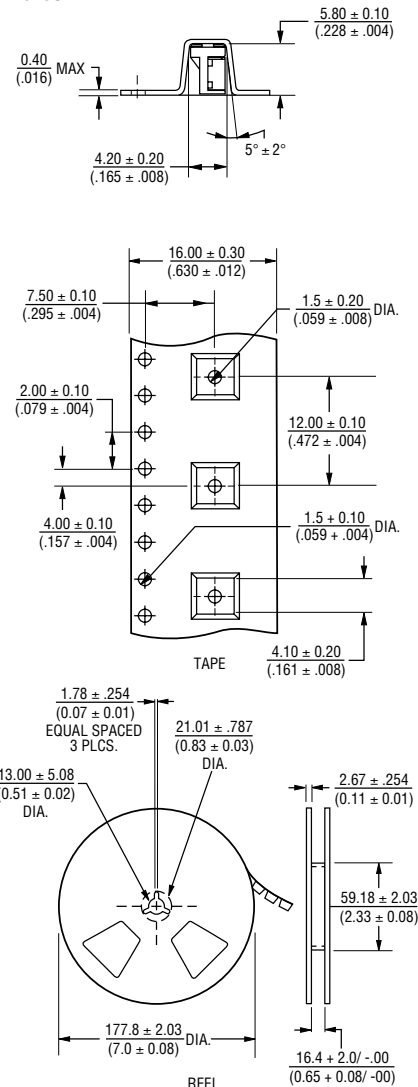
Packaging Specifications

7813J



Meets EIA 481

7813S



Meets EIA 481