

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

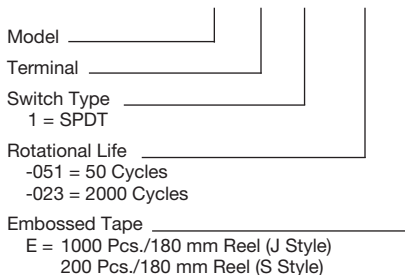
Humidity
 Insulation Resistance
10 megohms min.

Rotational Life
 -05150 Cycles
 -0232000 Cycles
 Max. Soldering Heat245 °C,
 5 seconds

Standard Packaging
 J1,000 pcs./reel
 S200 pcs./reel

How to Order

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Features

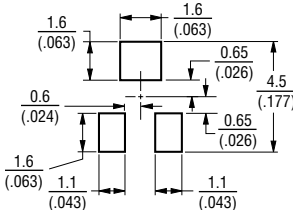
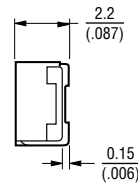
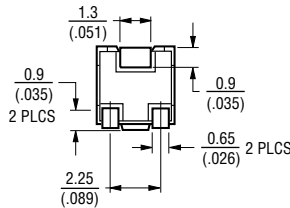
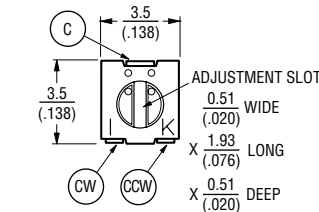
- Single pole/double throw
- Compatible with most surface mount manufacturing processes
- 50 or 2000 cycle rotational life
- Tape and reel packaged
- Withstands 245 ° soldering heat

- RoHS compliant*

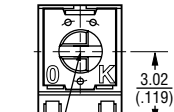
7813 SMD 3 mm Square Sealed Rotary Switch

Product Dimensions

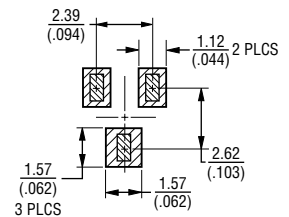
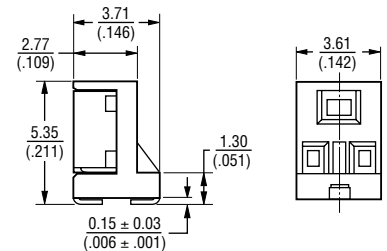
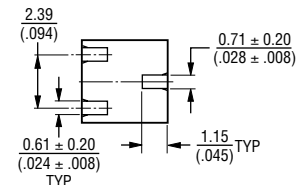
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7813S



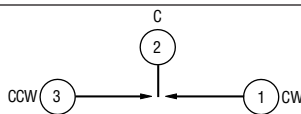
ADJUSTMENT SLOT
 1.93 ± 0.03 LONG X 0.52 ± 0.03
 (.076 ± .001) (.021 ± .001)
 WIDE X 0.51 ± 0.06 DEEP
 (.020 ± .002)



RECOMMENDED LAND PATTERN

DIMENSIONS ARE: MM
 (INCHES)

TOLERANCES: ±.2 EXCEPT WHERE NOTED.



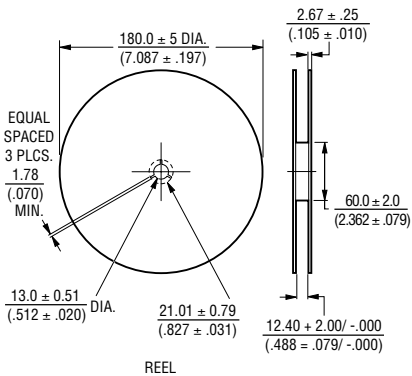
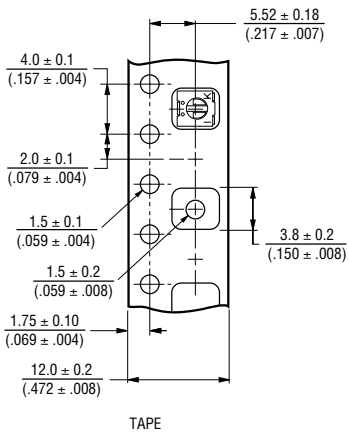
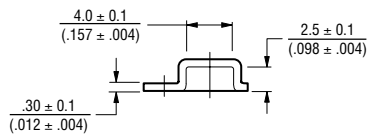
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 †"Fluorinert" is a registered trademark of 3M Co.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

7813 SMD 3 mm Square Sealed Rotary Switch

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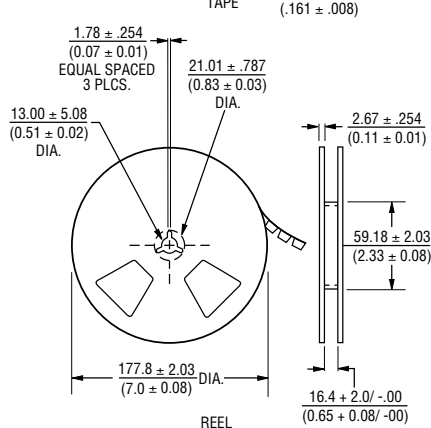
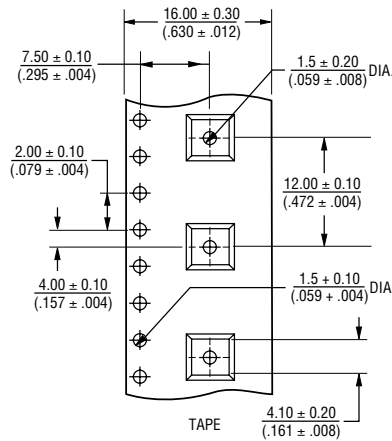
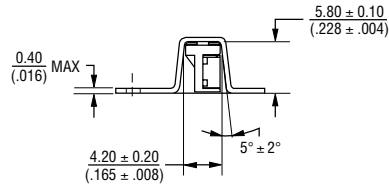
Packaging Specifications

7813J



Meets EIA 481

7813S



Meets EIA 481

Reflow Soldering Profile

