



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.
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Rotational Life

-051	50 Cycles
-023	2000 Cycles

Standard Packaging

J.....	1,000 pcs./reel
S	200 pcs./reel

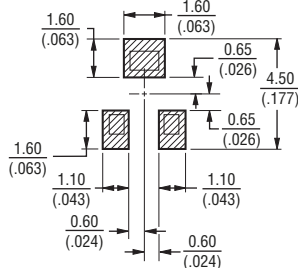
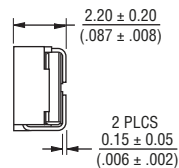
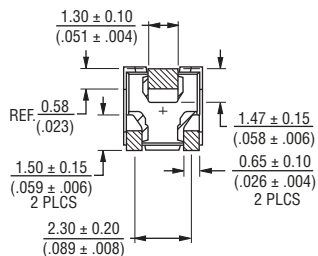
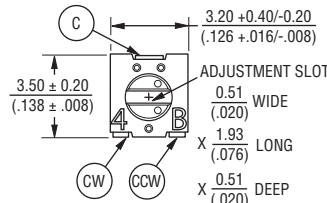
How to Order

7813 J - 1 - 051 E

Model	7813 J - 1 - 051 E
Terminal	1
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)

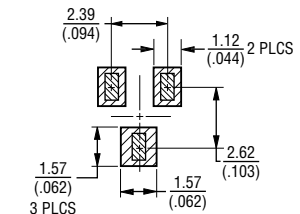
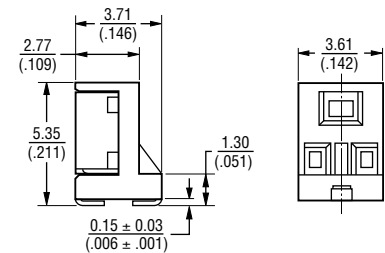
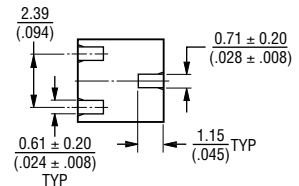
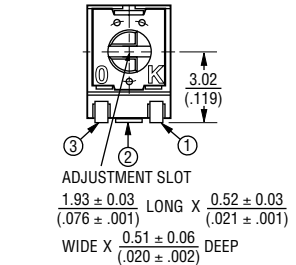
Product Dimensions

7813J



RECOMMENDED LAND PATTERN

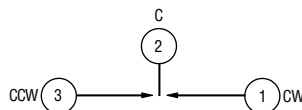
7813S



RECOMMENDED LAND PATTERN

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

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.

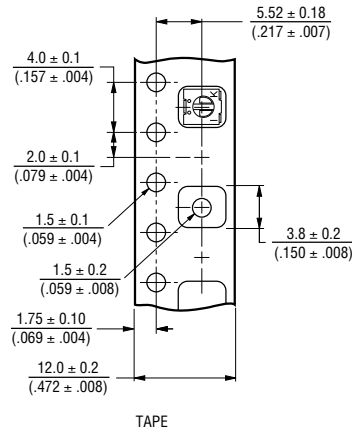
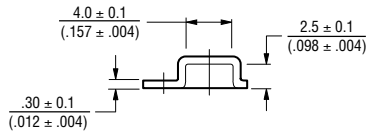
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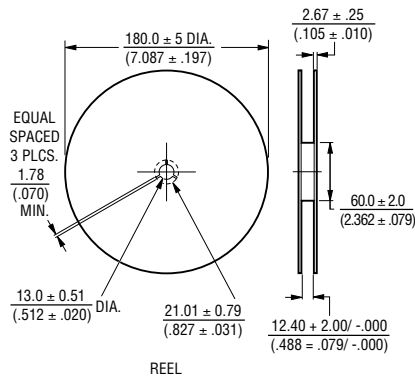
BOURNS®

Packaging Specifications

7813J



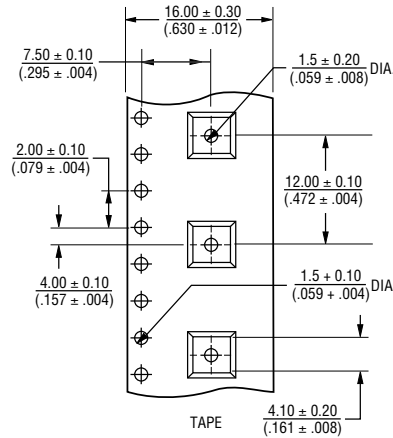
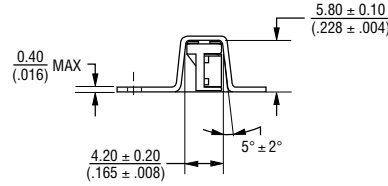
TAPE



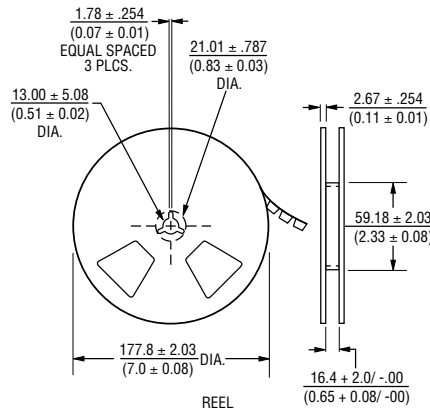
REEL

Meets EIA 481

7813S



TAPE



REEL

Meets EIA 481

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

REV. 04/12

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