



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 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

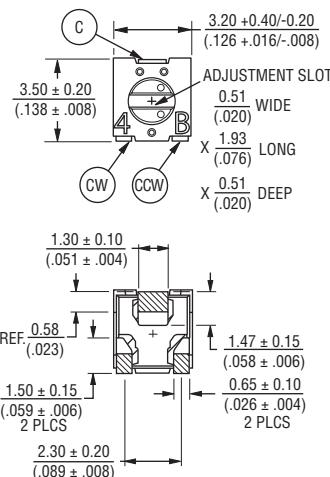
Model _____
 Terminal _____
 Switch Type _____
 1 = SPDT
 Rotational Life _____
 -051 = 50 Cycles
 -023 = 2000 Cycles
 Embossed Tape _____
 E = 1000 Pcs./180 mm Reel (J Style)
 200 Pcs./180 mm Reel (S Style)



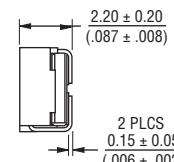
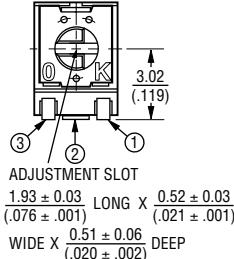
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Product Dimensions

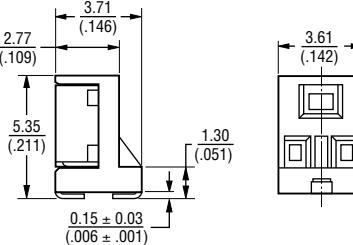
7813J



7813S



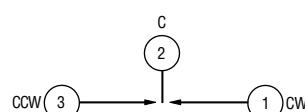
RECOMMENDED
LAND PATTERN



RECOMMENDED
LAND PATTERN

DIMENSIONS: **MM**
(**INCHES**)

TOLERANCES: ±2 EXCEPT WHERE NOTED.



*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.

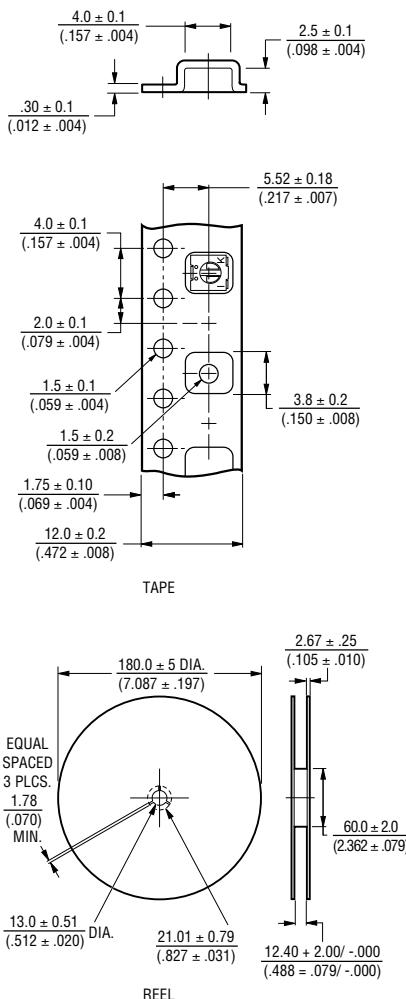
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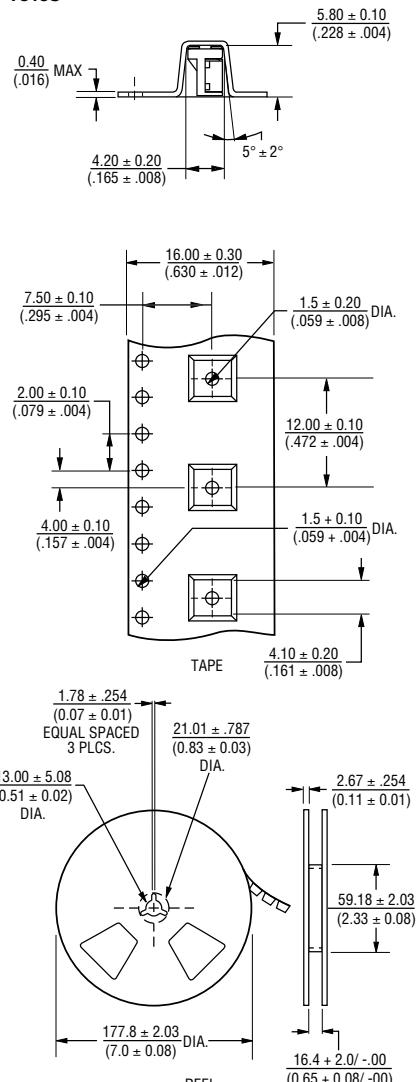
Packaging Specifications

7813J



Meets FIA 481

7813S



Meets EIA 481

DIMENSIONS: MM
(INCHES)

REV. 04/12

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