Features

- Diecast housing (bushing) and shaft
- Additional models and versions available; special data sheets can be requested
- Carbon resistive element

This series is currently available but not recommended for new designs.

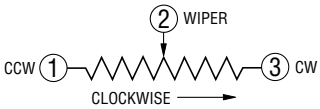
0502 - Rotary Potentiometer

Characteristics

Mechanical Angle.....270 ° ±5 °
Starting Torque.....0.5 to 1.5 Ncm
End Stop Strength.....60 Ncm max.
Shaft Push-Pull Force.....100 N max.
Resistance Range
.....100 ohms to 4.7 megohms
Resistance Taper.....Linear
Power Rating .....0.2 W
Temperature Range.....-25 °C to +70 °C
Rotational Life.....10,000 cycles

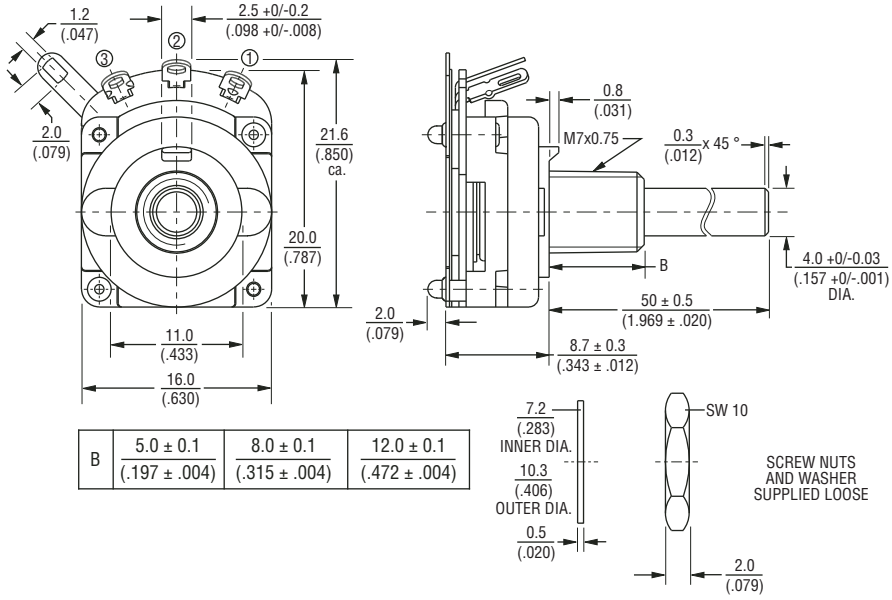
Standard Resistance Table

Resistance (Ohms)	Resistance Code
100	101
220	221
470	471
500	501
1,000	102
2,200	222
4,700	472
5,000	502
10,000	103
22,000	223
47,000	473
50,000	503
100,000	104
220,000	224
470,000	474
500,000	504
1,000,000	105



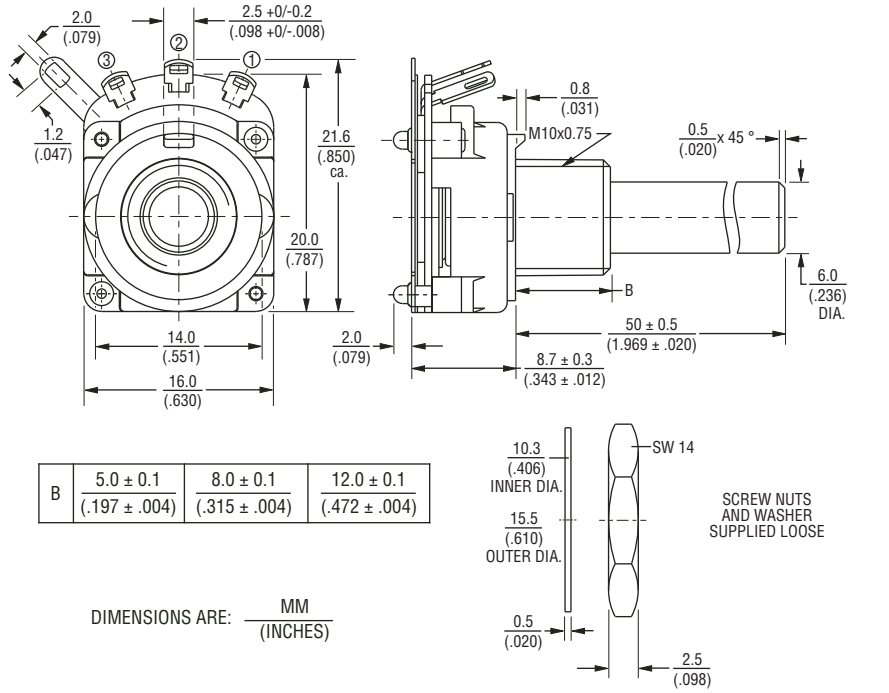
Product Dimensions

0502-000



B	5.0 ± 0.1 (.197 ± .004)	8.0 ± 0.1 (.315 ± .004)	12.0 ± 0.1 (.472 ± .004)

0502-050



B	5.0 ± 0.1 (.197 ± .004)	8.0 ± 0.1 (.315 ± .004)	12.0 ± 0.1 (.472 ± .004)

DIMENSIONS ARE: MM / (INCHES)

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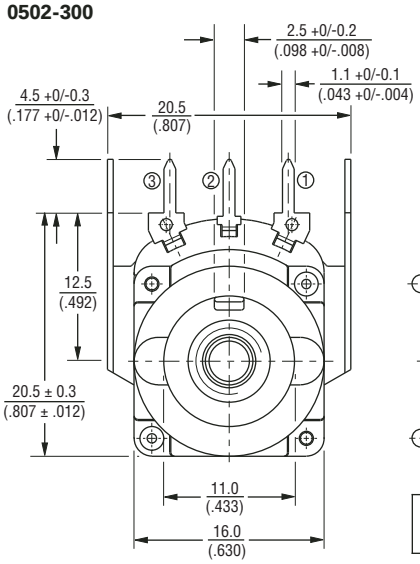
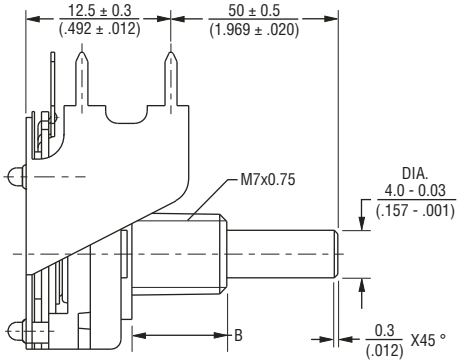
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Product Dimensions

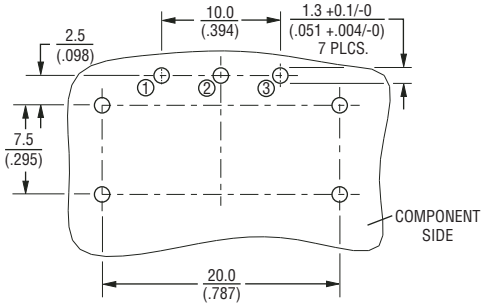
0502-300



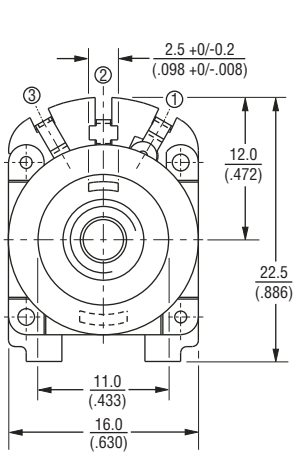


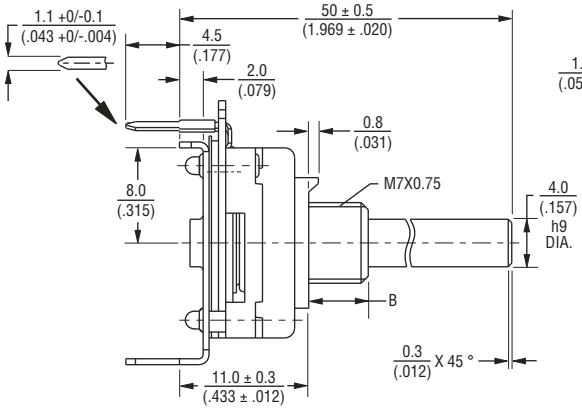
B	5.0 ± 0.1 (.197 ± .004)	8.0 ± 0.1 (.315 ± .004)	12.0 ± 0.1 (.472 ± .004)

Recommended PCB Layout

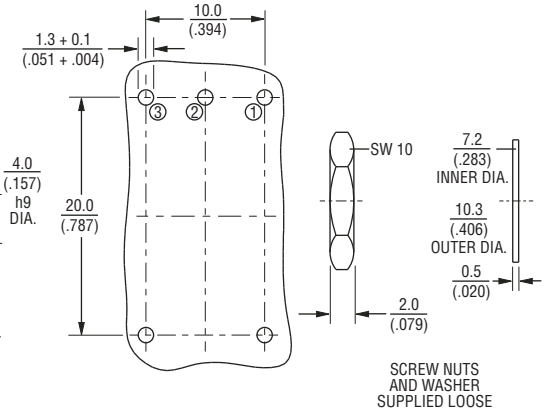


0502-600





Recommended PCB Layout



B	5.0 ± 0.1 (.197 ± .004)	8.0 ± 0.1 (.315 ± .004)	12.0 ± 0.1 (.472 ± .004)

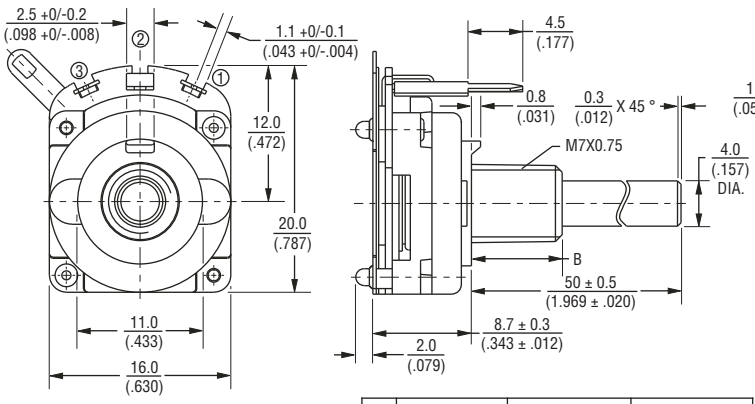
DIMENSIONS ARE: MM / (INCHES)

0502 - Rotary Potentiometer

BOURNS®

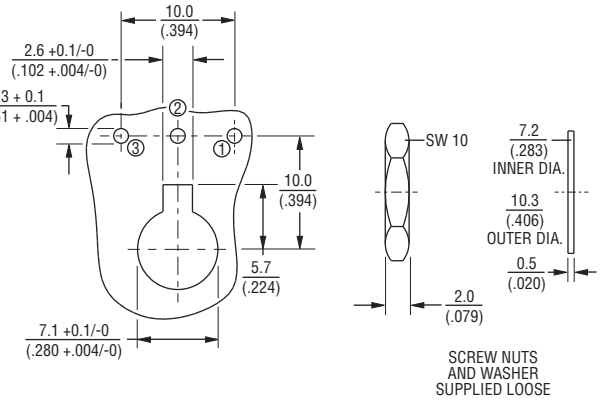
Product Dimensions

0502-900

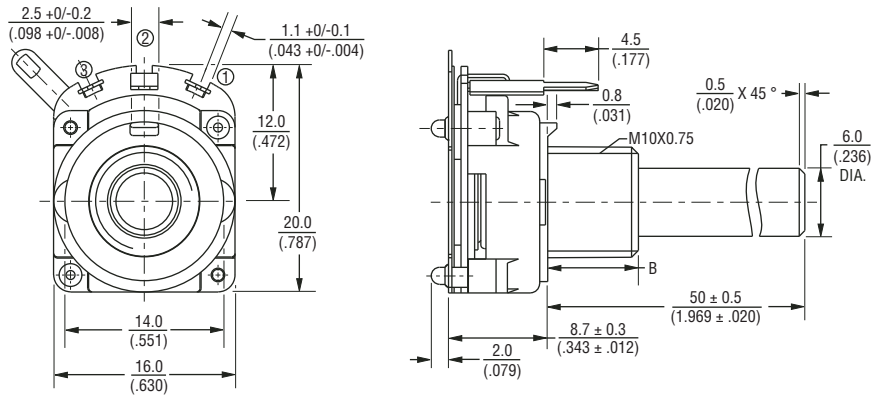


B	5.0 ± 0.1 (.197 ± .004)	8.0 ± 0.1 (.315 ± .004)	12.0 ± 0.1 (.472 ± .004)

Recommended PCB Layout

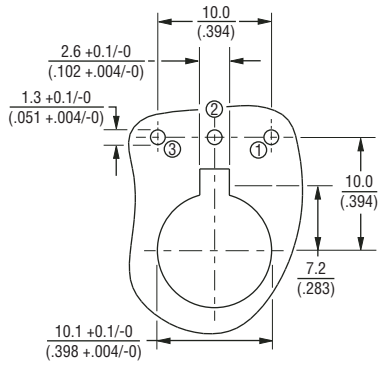


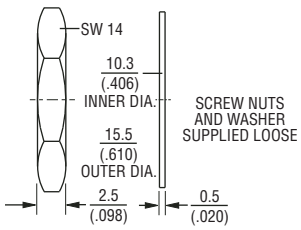
0502-950



B	5.0 ± 0.1 (.197 ± .004)	8.0 ± 0.1 (.315 ± .004)	12.0 ± 0.1 (.472 ± .004)

Recommended PCB Layout





DIMENSIONS ARE: MM / (INCHES)

How to Order

0502 - 000 U 185 - A B 103

Model Type
- 0502

Terminal Style
Only Available w/ Bushing Code:
- 000 G,H,U
- 050 K,M,N
- 300 G,H,U
- 600 G,H,U
- 900 G,H,U
- 950 K,M,N

Bushing & Shaft Type
- U = 7 mmD x 8 mmL, Shaft 4 mmD
- H = 7 mmD x 5 mmL, Shaft 4 mmD
- G = 7 mmD x 12 mmL, Shaft 4 mmD
- K = 10 mmD x 8 mmL, Shaft 6 mmD
- M = 10 mmD x 5 mmL, Shaft 6 mmD
- N = 10 mmD x 12 mmL, Shaft 6 mmD

Shaft Length
- 500 = 50 mm

Other lengths avail. upon request.

Independent Linearity
- A = ±5 %
- B = ±4 %
- C = ±3 %
- D = ±2.5 %
- E = ±2 %

Element Taper
- B = Linear Carbon ±20 %
- E = Linear Carbon ±10 %
- L = Linear Carbon ±5 %

Resistance Code

Other versions available upon request.

REV 10/20

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