

Features

- Conductive plastic
- PC board and bushing mount
- Plastic bushing and plastic shaft
- Withstands typical industrial washing processes
- Compact package saves board and panel space
- Audio taper versions available as special order
- RoHS compliant versions available*

3310 - 9 mm Square Sealed Panel Control

Electrical Characteristics

Standard Resistance Range - Linear	1 K ohms to 1 megohm
Total Resistance Tolerance - Linear Tapers	±20 %
Independent Linearity	±5 %
Absolute Minimum Resistance	2 ohms maximum
Effective Electrical Angle	270 ° ±15 °
Contact Resistance Variation	1 % or 1 ohm (whichever is greater)
Dielectric Withstanding Voltage (MIL-STD-202 – Method 301)	
Sea Level	900 VAC minimum
70,000 Feet	350 VAC minimum
Insulation Resistance	1,000 megohms minimum
Power Rating @ 70 °C (Derate to 0 at 125 °C - Voltage Limited By Power Dissipation or 200 VAC, Whichever is Less)	0.25 watts
Theoretical Resolution	Essentially infinite

Environmental Characteristics

Operating Temperature Range	-40 °C to +125 °C (-40 °F to +257 °F)
Storage Temperature Range	-55 °C to +125 °C (-67 °F to +257 °F)
Temperature Coefficient Over Storage Temperature Range	±1,000 ppm/°C
Vibration	
Total Resistance Shift	±1 % maximum
Voltage Ratio Shift	±1 % maximum
Shock	
Total Resistance Shift	±1 % maximum
Voltage Ratio Shift	±1 % maximum
Load Life	
Total Resistance Shift	±10 % TRS maximum
Rotational Life (No Load)	
Total Resistance Shift	±5 % TRS maximum
Contact Resistance Variation	3 % or 3 ohms, whichever is greater
Moisture Resistance	
Total Resistance Shift	±10 % TRS maximum
IP Rating	IP67

Mechanical Characteristics

Stop Strength	5.65 N-cm (8 oz.-in.)
Mechanical Angle	300 ° nominal
Torque	
Starting	3.53 N-cm (5.0 oz.-in.) maximum
Running	3.53 N-cm (5.0 oz.-in.) maximum
Mounting (Torque on Bushing)	45 N-cm (4.0 lb.-in.) max [plastic bushing]; 79 N-cm (7.0 lb.-in.) max [metal bushing]
Weight (Single Section)	
(Each Additional Section)	4.5 grams
(Each Additional Section)	2.5 grams
Terminals	
Soldering Condition	
Manual Soldering	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire; 370 °C (700 °F) max. for 3 seconds
Wave Soldering	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux; 260 °C (500 °F) max. for 5 seconds
Wash Processes	For recommended wash processes, please refer to http://www.bourns.com/pdfs/sldclen.pdf
Marking	Manufacturer's trademark, model number, product code, terminal style, resistance code and date code
Ganging	2 cups maximum
Hardware	One lockwasher and one mounting nut is shipped with each potentiometer, except where noted in the part number.
Flammability	Conforms to UL94V-0
Epoxy	Conforms to UL 94V-1
IP Rating	IP67

Switch Characteristics

Contact Resistance	2 ohms max.
Dielectric Strength	350 VDC
Detent Torque	0.5 oz-in min.
Power Rating (Resistive Load)	100 mA @ 16VDC

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

3310 - 9 mm Square Sealed Panel Control

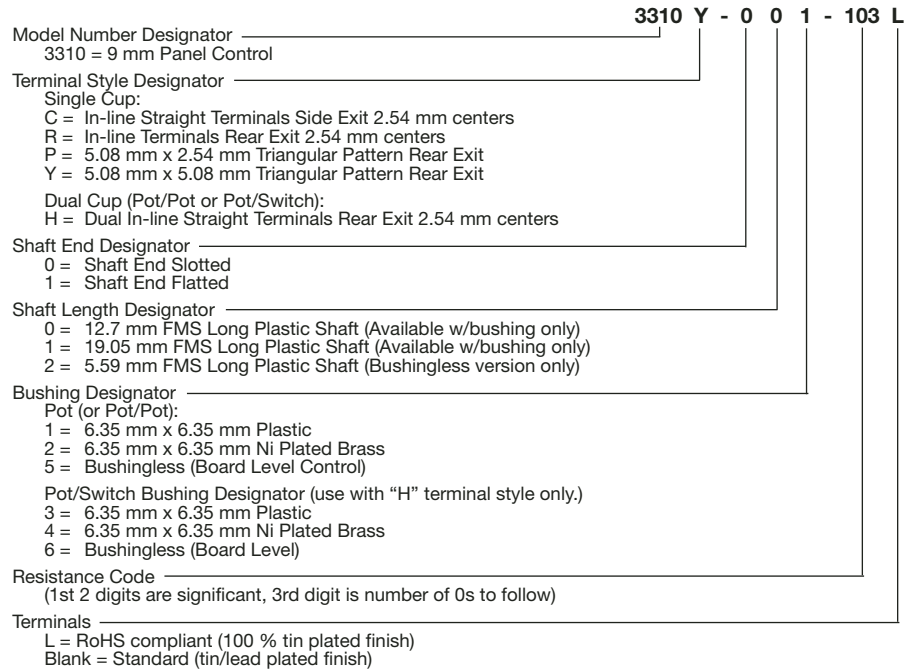


Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Popular values listed in boldface. Consult factory for special resistances.

Part Numbering System



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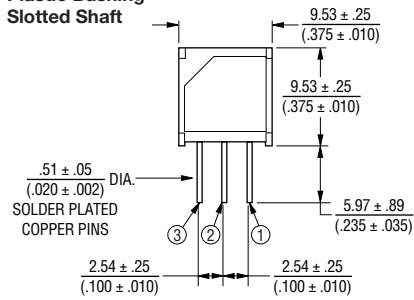


Product Dimensions

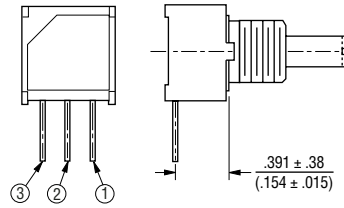
COMMON DIMENSIONS

3310-001

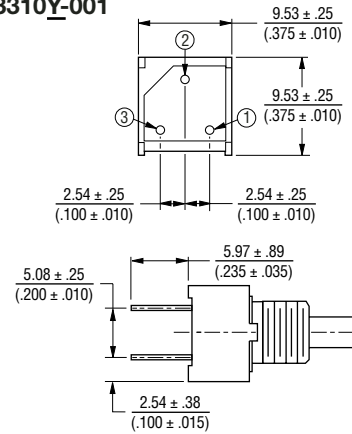
Plastic Bushing
Slotted Shaft



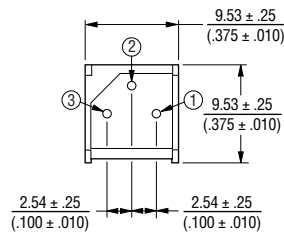
3310C-001



3310Y-001



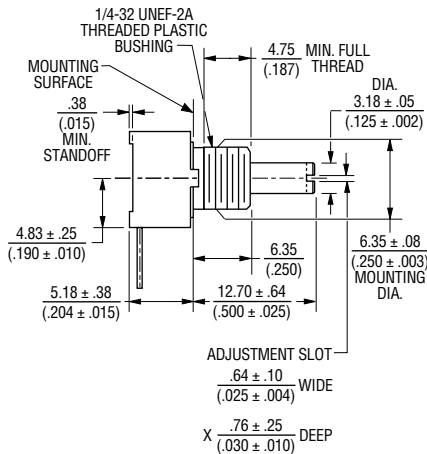
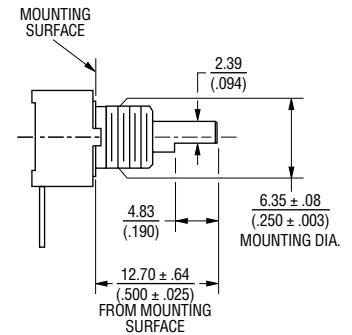
3310P-001



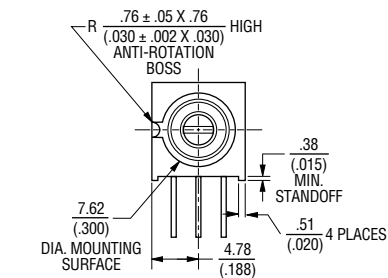
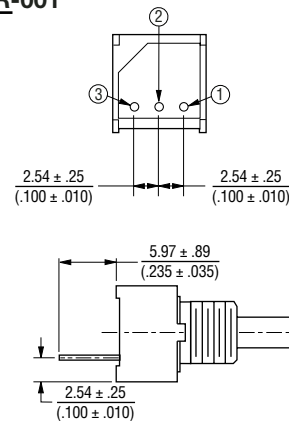
COMMON DIMENSIONS

3310C-101

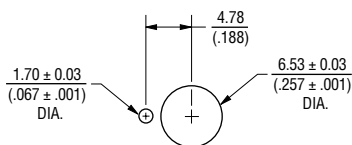
Plastic Flatted Shaft



3310R-001



MOUNTING HOLE PATTERN



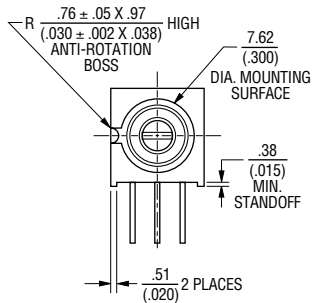
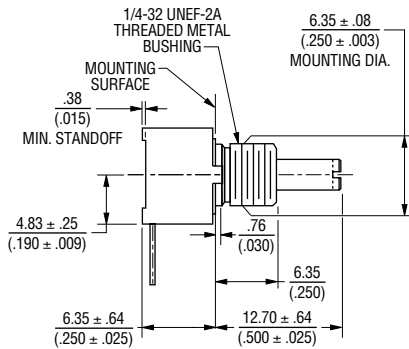
DIMENSIONS ARE: $\frac{\text{MM}}{\text{(INCHES)}}$

3310 - 9 mm Square Sealed Panel Control

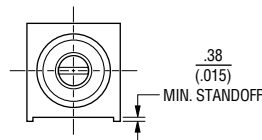
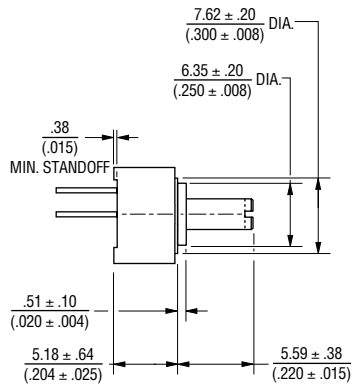
BOURNS®

Product Dimensions

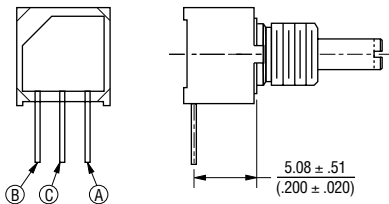
COMMON DIMENSIONS 3310-002 Metal Bushing



3310P-025 * Bushingless



3310C-002



NOTE: * Only recommended shaft length for bushingless version

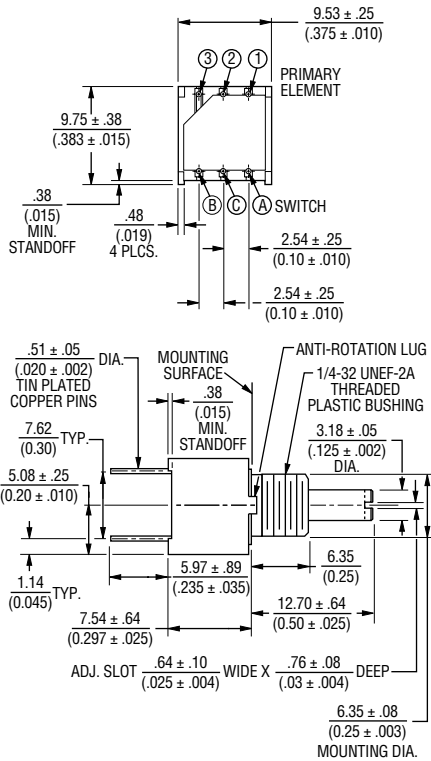
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3310 - 9 mm Square Sealed Panel Control

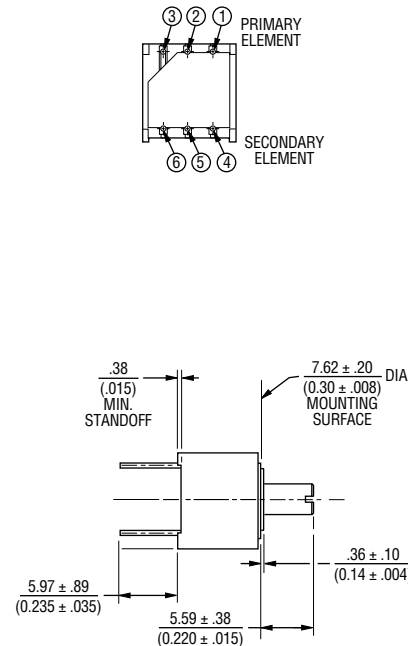


Product Dimensions

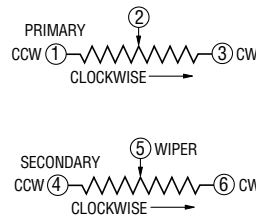
COMMON DIMENSIONS 3310H-003 Pot/Switch Dual Cup Plastic Bushing



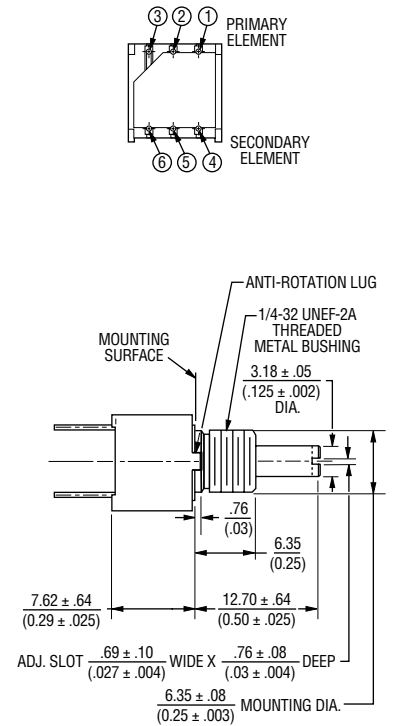
3310H-025* Pot/Pot Dual Cup Bushingless



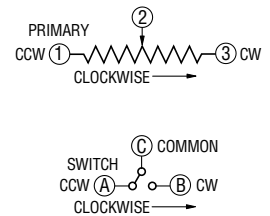
Pot/Pot Dual Cup



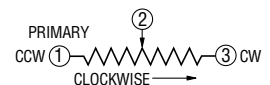
3310H-002 Pot/Pot Dual Cup Metal Bushing



Pot/Switch Dual Cup



Pot Single Cup



NOTE: * Only recommended shaft length for bushingless version

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