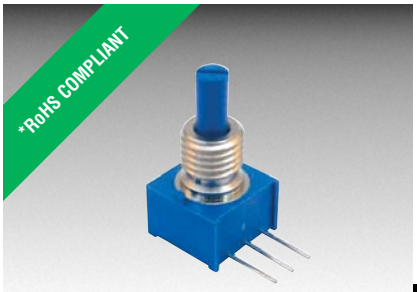

Features

- Conductive plastic
- PC board and bushing mount
- Plastic or metal bushing and plastic shaft
- Withstands typical industrial washing processes
- Compact package saves board and panel space

BOURNS® PRO AUDIO

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	30 G
Total Resistance Shift	±1 % maximum
Voltage Ratio Shift	±1 % maximum
Shock	100 G
Total Resistance Shift	±1 % maximum
Voltage Ratio Shift	±1 % maximum
Load Life	1,000 hours
Total Resistance Shift	±10 % TRS maximum
Rotational Life (No Load)	50,000 cycles
Total Resistance Shift	±5 % TRS maximum
Contact Resistance Variation	3 % or 3 ohms, whichever is greater
Moisture Resistance	MIL-STD-202, Method 103, Condition B
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)	4.5 grams
(Each Additional Section)	2.5 grams
Terminals	Solderable pins
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

Switch Life	10K cycles
Contact Resistance	2 ohms max.
Dielectric Strength	350 VDC
Detent Torque	0.5 oz-in min.
Power Rating (Resistive Load)	100 mA @ 16 VDC

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Additional Features

- Audio taper versions available as special order
- RoHS compliant*

3310 - 9 mm Square Sealed Panel Control

BOURNS®

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.

How To Order

3310 Y - 0 0 1 - 103 L

Model Number Designator
3310 = 9 mm Panel Control

Terminal Style Designator
Single Cup:
C = In-line Straight Terminals Side Exit 2.54 mm centers
R = In-line Terminals Rear Exit 2.54 mm centers
P = 5.08 mm x 2.54 mm Triangular Pattern Rear Exit
Y = 5.08 mm x 5.08 mm Triangular Pattern Rear Exit

Dual Cup (Pot/Pot or Pot/Switch):
H = Dual In-line Straight Terminals Rear Exit 2.54 mm centers

Shaft End Designator
0 = Shaft End Slotted
1 = Shaft End Flatted

Shaft Length Designator
0 = 12.7 mm FMS Long Plastic Shaft (Available w/bushing only)
1 = 19.05 mm FMS Long Plastic Shaft (Available w/bushing only)
2 = 5.59 mm FMS Long Plastic Shaft (Bushingless version only)

Bushing Designator
Pot (or Pot/Pot):
1 = 6.35 mm x 6.35 mm Plastic
2 = 6.35 mm x 6.35 mm Ni Plated Brass
5 = Bushingless (Board Level Control)

Pot/Switch Bushing Designator (use with "H" terminal style only.)
3 = 6.35 mm x 6.35 mm Plastic
4 = 6.35 mm x 6.35 mm Ni Plated Brass
6 = Bushingless (Board Level)

Resistance Code
(1st 2 digits are significant, 3rd digit is number of 0s to follow)

RoHS Identifier
L = Compliant

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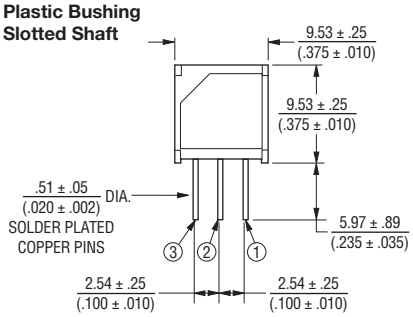
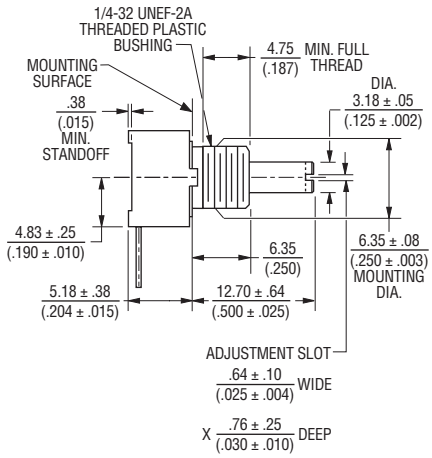
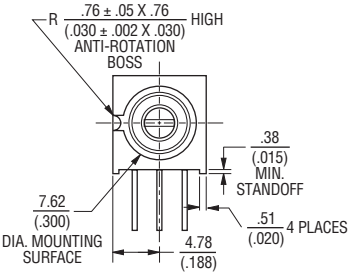
Product Dimensions

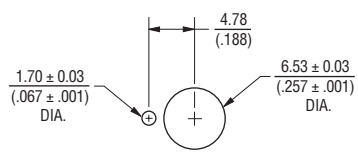
COMMON DIMENSIONS
3310-001
Plastic Bushing
Slotted Shaft



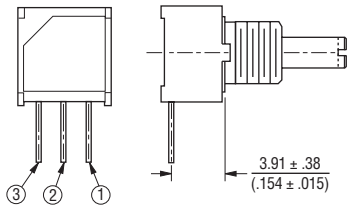




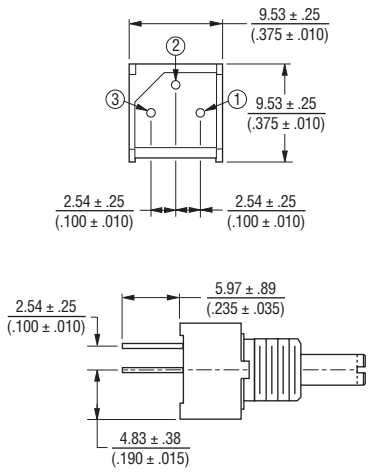
MOUNTING HOLE PATTERN



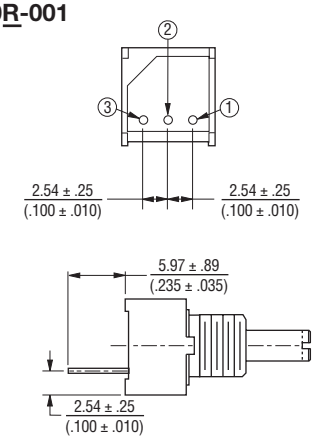
3310C-001



3310P-001

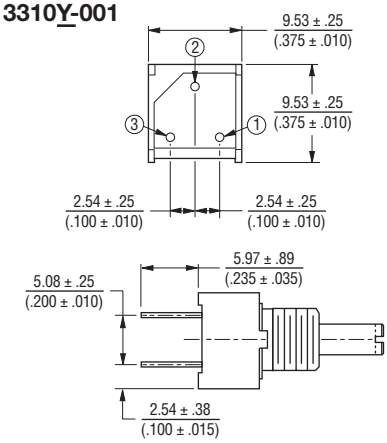


3310R-001

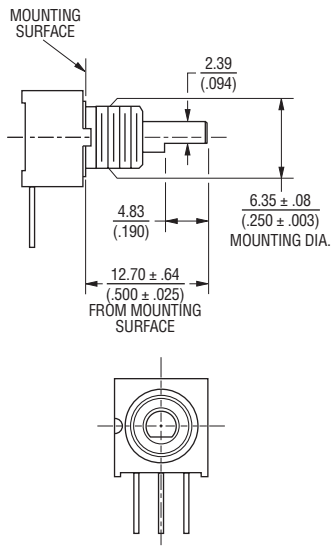


DIMENSIONS: MM / (INCHES)

3310Y-001



COMMON DIMENSIONS
3310C-101
Plastic Flatted Shaft

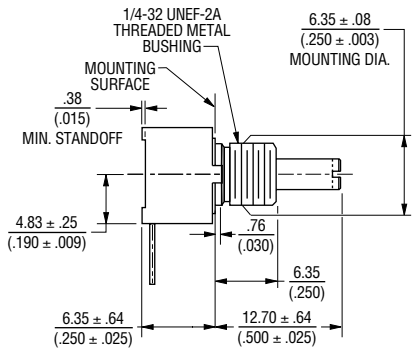


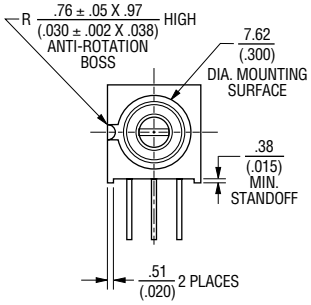
The shaft flat position as shown above is at 50 % of the mechanical travel.

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

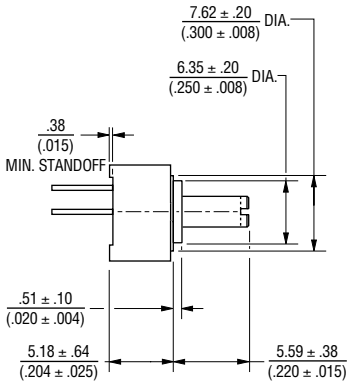
Product Dimensions

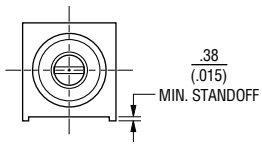
COMMON DIMENSIONS
3310-002
Metal Bushing



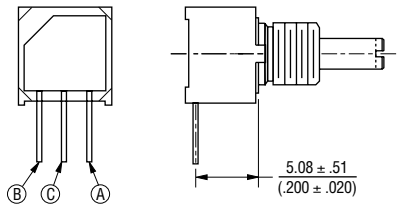


3310P-025 *
Bushingless





3310C-002



DIMENSIONS: MM / (INCHES)

NOTE: * Only recommended shaft length for bushingless version

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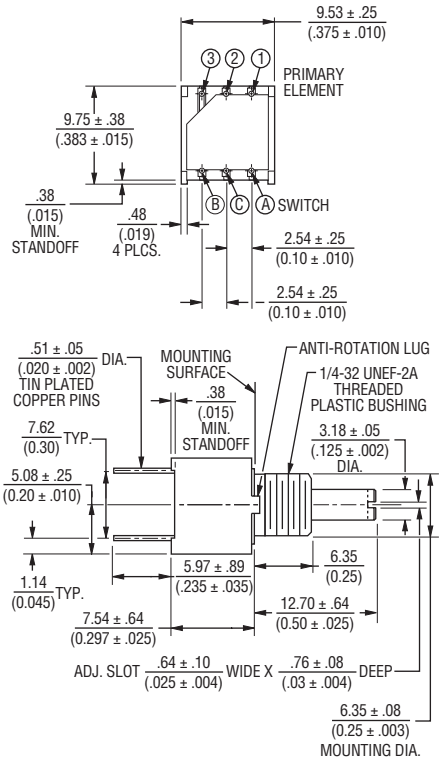
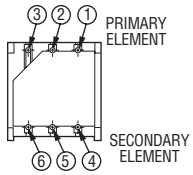
Product Dimensions

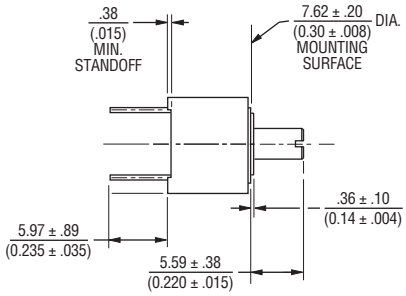
COMMON DIMENSIONS

3310H-003
Pot/Switch Dual Cup
Plastic Bushing

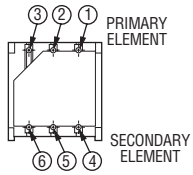


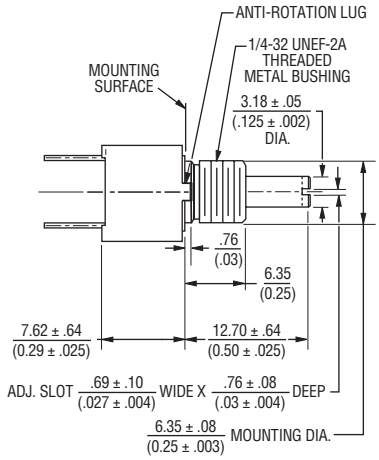
3310H-025*
Pot/Pot Dual Cup
Bushingless



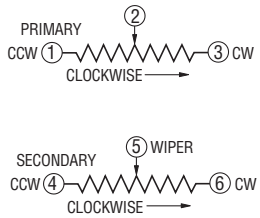


3310H-002
Pot/Pot Dual Cup
Metal Bushing



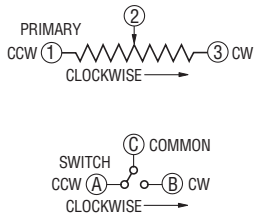


Pot/Pot Dual Cup

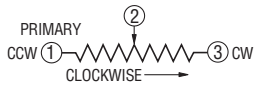


DIMENSIONS: MM / (INCHES)

Pot/Switch Dual Cup



Pot Single Cup



NOTE: * Only recommended shaft length for bushingless version

REV. 08/12

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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