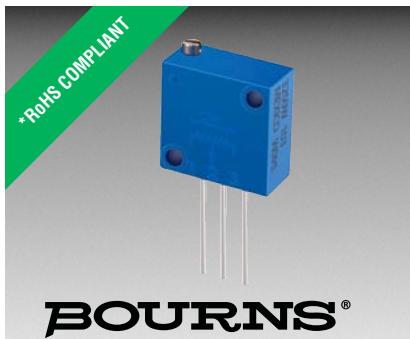




## Features

- Multiturn / Wirewound / Sealed
- Listed on the QPL for style RT22 per MIL-R-27208 and RTR22 per High-Rel MIL-R-39015
- Panel mount option available
- RoHS compliant\*

- For trimmer applications/processing guidelines, [click here](#)

## 3250 - 1/2 " Square Trimpot® Trimming Potentiometer

### Electrical Characteristics

|                             |                                 |
|-----------------------------|---------------------------------|
| Standard Resistance Range   | 10 to 50K ohms                  |
|                             | (see standard resistance table) |
| Resistance Tolerance        | ±5 % std.                       |
|                             | (tighter tolerance available)   |
| Absolute Minimum Resistance | 0.1 % or 1 ohm max.             |
|                             | (whichever is greater)          |
| Noise                       | 100 ohms ENR max.               |
| Resolution                  | See Resistance Table            |
| Insulation Resistance       | 500 vdc.                        |
|                             | 1,000 megohms min.              |
| Dielectric Strength         |                                 |
| Sea Level                   | 1,000 vac                       |
| 80,000 Feet                 | 400 vac                         |
| Adjustment Travel           | 25 turns nom.                   |

### Environmental Characteristics

|                         |                                   |
|-------------------------|-----------------------------------|
| Power Rating @ 85 °C    | 1.0 watt                          |
| Power Rating @ 150 °C   | 0 watt                            |
| Temperature Range       | -65 °C to +150 °C                 |
| Temperature Coefficient | ±50 ppm/°C                        |
| Seal Test               | 85 °C Fluorinert†                 |
|                         | (pin styles only)                 |
| Humidity                | MIL-STD-202 Method 106            |
|                         | (2 % ΔTR; 100 Megohms IR)         |
| Vibration               | 30 G                              |
|                         | (1 % ΔTR; 0.5 % + resolution ΔVR) |
| Shock                   | 100 G                             |
|                         | (1 % ΔTR; 0.5 % + resolution ΔVR) |
| Load Life               |                                   |
|                         | 1,000 hours 1.0 watt @ 85 °C      |
|                         | (2 % ΔTR; 500 ohms ENR)           |
| Rotational Life         | 200 cycles                        |
|                         | (2 % ΔTR; 500 ohms ENR)           |

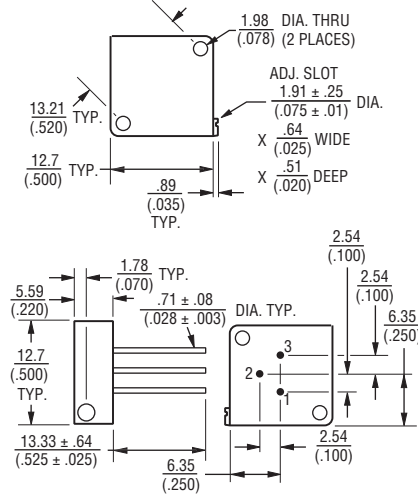
### Physical Characteristics

|                        |                                      |
|------------------------|--------------------------------------|
| Torque                 | 5.0 oz-in. max.                      |
| Mechanical Stops       | Wiper idles                          |
| Terminals              | Solderable printed circuit pins      |
|                        | Flexible leads (7 strands of 30 AWG) |
| Weight                 | 0.06 oz.                             |
| Machine Screw Mounting |                                      |
| Torque                 | 12 oz-in. max.                       |
| Marking                | Manufacturer's trademark,            |
|                        | resistance code, terminal numbers,   |
|                        | date code, manufacturer's model      |
|                        | number and style                     |
| Wiper                  | 50 % (Actual TR) ±10 %               |
| Flammability           | U.L. 94V-0                           |
| Standard Packaging     |                                      |
| P&W Styles             | 25 pcs. per tube                     |
| L Style                | 25 pcs. per bag                      |
| Adjustment Tool        | H-90                                 |

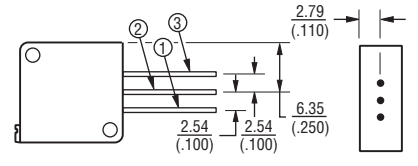
### Product Dimensions

#### 3250P

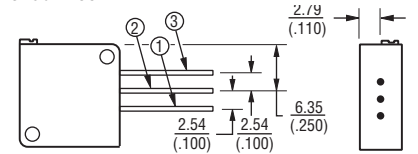
#### Common Dimensions (Pin Styles)



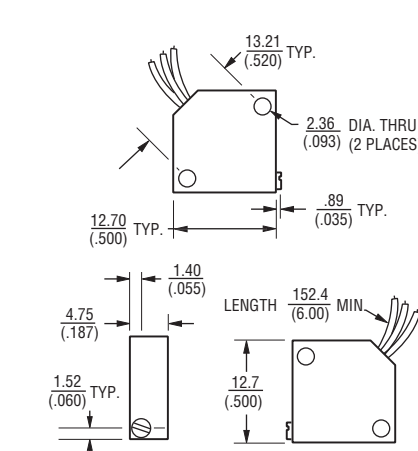
#### 3250W



#### 3250W-66



#### 3250L



### How To Order

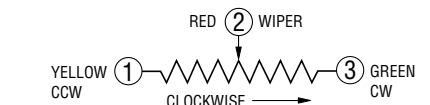
|                        |                                               |
|------------------------|-----------------------------------------------|
| Model                  | 3250 L - 1 - 103 M                            |
| Style                  |                                               |
| Standard or Modified   |                                               |
| Product Indicator      | -1 = Standard Product                         |
| Resistance Code        |                                               |
| Optional Suffix Letter |                                               |
|                        | M = Panel Mount - Factory Installed           |
|                        | (Only Available for L, W & X Terminal Styles) |

Consult factory for other available options.

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code | Nominal Resolution (Percent) |
|-------------------|-----------------|------------------------------|
| 10                | 100             | 1.30                         |
| 20                | 200             | 1.00                         |
| 50                | 500             | 0.80                         |
| <b>100</b>        | <b>101</b>      | <b>0.90</b>                  |
| <b>200</b>        | <b>201</b>      | <b>0.70</b>                  |
| <b>500</b>        | <b>501</b>      | <b>0.60</b>                  |
| <b>1,000</b>      | <b>102</b>      | <b>0.40</b>                  |
| <b>2,000</b>      | <b>202</b>      | <b>0.30</b>                  |
| <b>5,000</b>      | <b>502</b>      | <b>0.25</b>                  |
| <b>10,000</b>     | <b>103</b>      | <b>0.19</b>                  |
| <b>20,000</b>     | <b>203</b>      | <b>0.16</b>                  |
| 25,000            | 253             | 0.14                         |
| 50,000            | 503             | 0.13                         |

Popular values listed in boldface. Special resistances available.



|             |                                     |
|-------------|-------------------------------------|
| DIMENSIONS: | MM<br>(INCHES)                      |
| TOLERANCES: | ± 0.25<br>(.010) EXCEPT WHERE NOTED |

REV. 04/15

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 "Trimpot" is a registered trademark of Bourns, Inc.  
 †"Fluorinert" is a registered trademark of 3M Co.  
 Specifications are subject to change without notice.  
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
 Users should verify actual device performance in their specific applications.