

## 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 .....  $\pm 5\%$  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

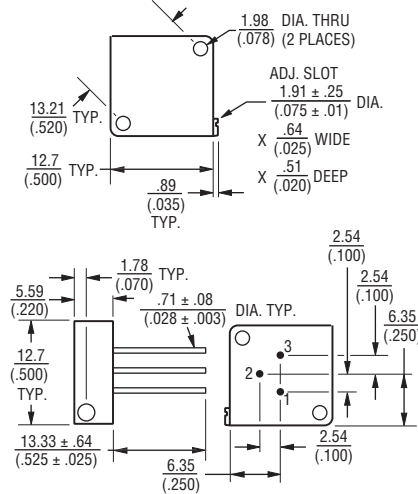
Power Rating @ 85 °C ..... 1.0 watt  
Power Rating @ 150 °C ..... 0 watt  
Temperature Range ... -65 °C to +150 °C  
Temperature Coefficient .....  $\pm 50$  ppm/°C  
Seal Test ..... 85 °C Fluorinert†  
(pin styles only)  
Humidity ..... MIL-STD-202 Method 106  
(2 %  $\Delta$ TR; 100 Megohms IR)  
Vibration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

### Physical Characteristics

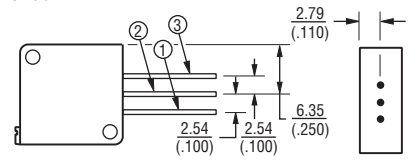
Torque ..... 5.0 oz-in. max.  
Mechanical Stops ..... Wiper idles  
Terminals .. Solderable printed circuit pins  
Flexible leads (7 strands of 30 AWG)  
Weight ..... 0.06 oz.  
Machine Screw Mounting  
Torque ..... 12 oz-in. max.  
Marking ..... Manufacturer's trademark,  
resistance code, terminal numbers,  
date code, manufacturer's model  
number and style  
Wiper ..... 50 % (Actual TR)  $\pm 10\%$   
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

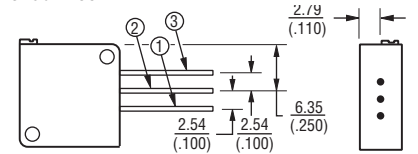
#### 3250P Common Dimensions (Pin Styles)



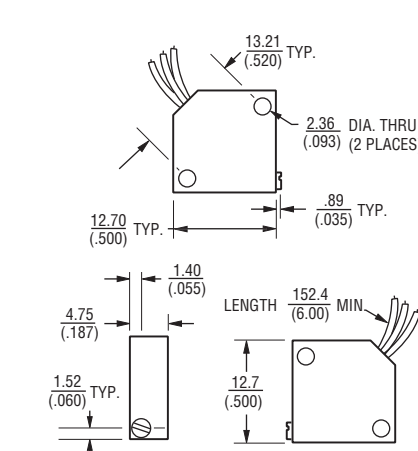
#### 3250W



#### 3250W-66



#### 3250L



### How To Order

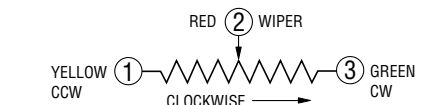
Model **3250 L - 1 - 103 M**  
Style .....  
Standard or Modified  
Product Indicator .....  
-1 = Standard Product  
Resistance Code .....  
Optional Suffix Letter .....  
M = Panel Mount - Factory Installed  
(Only Available for L, W & X Terminal  
Styles)

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:  $\frac{\text{MM}}{\text{(INCHES)}}$   
TOLERANCES:  $\pm \frac{0.25}{(.010)}$  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.