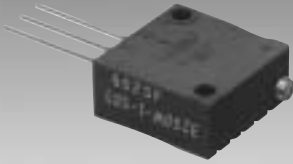


AVAILABLE THROUGH DISTRIBUTION



**BOURNS®**

## Features

- Multiturn / Wirewound / Sealed
- [Listed on the OPL](#) for style RT22 per MIL-R-27208 and RTR22 per High-Rel MIL-R-39015
- [Panel Mount option](#) available

## 3250/RT22/RTR22 - 1/2 " Square Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range

3250	.....10 to 50K ohms
RT22	.....50 to 20K ohms
RTR22	.....500 to 20K 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

3250	.....1.0 watt
RT22/RTR22	.....0.75 watt

Power Rating @ 150 °C.....0 watt

Temperature Range.....-65 °C to +150 °C

Temperature Coefficient

3250	.....±50 ppm/°C
RT22/RTR22	.....±50 ppm/°C

Seal Test.....85 °C Fluorinert\* (pin styles only)

Humidity.....MIL-STD-202 Method 106

3250	.....(2 % ΔTR; 100 Megohms IR)
RT22	.....(1 % ΔTR; 10 Megohms IR)
RTR22	.....(1 % ΔTR; 100 Megohms IR)

Vibration.....30 G (1 % ΔTR; 0.5 % + resolution ΔVR)

Shock.....100 G (1 % ΔTR; 0.5 % + resolution ΔVR)

Load Life

3250	.....1,000 hours 1.0 watt @ 85 °C (2 % ΔTR; 500 ohms ENR)
RT22	.....1,000 hours 0.75 watt @ 85 °C (2 % ΔTR; 2 % + resolution ΔVR)
RTR22	.....10,000 hours 0.75 watt @ 85 °C (3 % ΔTR; 2 % + resolution ΔTR)

Rotational Life.....200 cycles

3250	.....(2 % ΔTR; 500 ohms ENR)
RT22/RTR22	.....(2 % ΔTR)

### Physical Characteristics

Torque.....5.0 oz-in. max.

Mechanical Stops.....Wiper idles

Terminals

3250	.....Solderable printed circuit pins
RT22/RTR22	.....Flexible leads (7 strands of 30 AWG)

Weight.....0.06 oz.

Machine Screw Mounting

Torque.....12 oz-in. max.

Marking

3250	.....Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style
RT22/RTR22	.....Mil-spec part number

Wiper.....Set at CW end

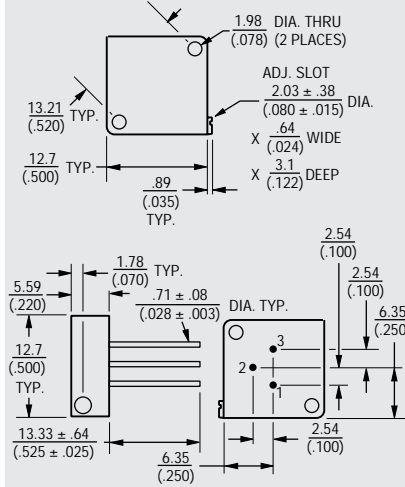
Flammability.....U.L. 94V-0

Standard Packaging

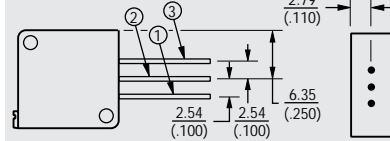
P&W Styles	.....25 pcs. per tube
L Style	.....25 pcs. per bag

Adjustment Tool.....H-90

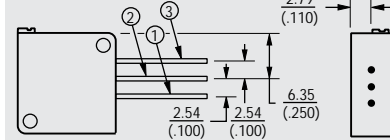
### 3250P/RT22/RTR22 Common Dimensions (Pin Styles)



### 3250W/RT22/RTR22

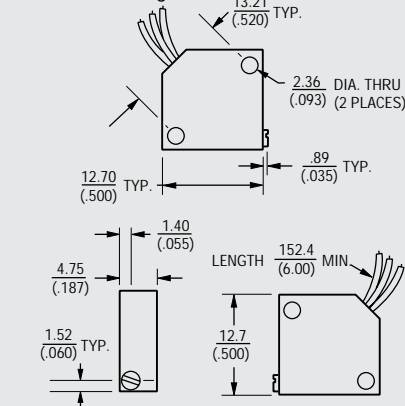


### 3250W-66/RT22X/RTR22X



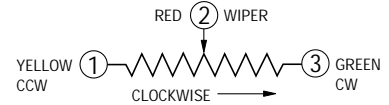
### "L" Flex Lead Type

RT22 has mounting slots  
RTR22 has mounting holes



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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



### How To Order

3250 L - 1 - 103 M

Model \_\_\_\_\_

Style \_\_\_\_\_

Standard or Modified Product Indicator \_\_\_\_\_  
-1 = Standard Product

Resistance Code \_\_\_\_\_

Optional Suffix Letter \_\_\_\_\_  
M = Panel Mount (Factory Installed)

See "Mil-Spec Numbering System" for RT22/RTR22 ordering information.

Consult factory for other available options.

### Standard Resistance Table

Resistance (Ohms)	Nominal Resistance Code	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.

SHADED AREAS TYPICALLY NOT STOCKED BY DISTRIBUTORS AND NOT RECOMMENDED FOR NEW DESIGNS.