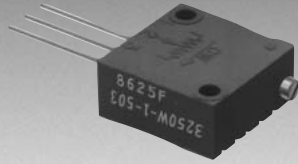


AVAILABLE THROUGH DISTRIBUTION



BOURNS®

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

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

Electrical Characteristics

Standard Resistance Range
 325010 to 50K ohms
 RT2250 to 20K ohms
 RTR22500 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.
 ResolutionSee Resistance Table
 Insulation Resistance.....500 vdc.
 1,000 megohms min.
 Dielectric Strength
 Sea Level.....1,000 vac
 80,000 Feet400 vac
 Adjustment Travel.....25 turns nom.

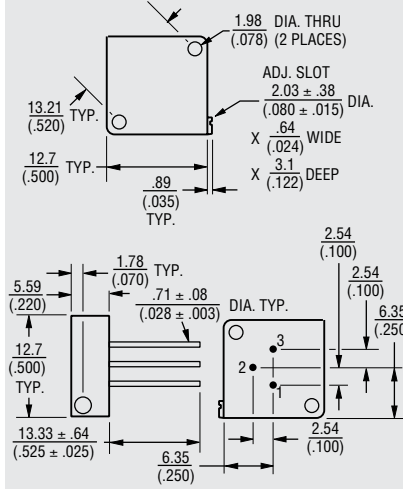
Environmental Characteristics

Power Rating @ 85 °C
 32501.0 watt
 RT22/RTR220.75 watt
 Power Rating @ 150 °C0 watt
 Temperature Range.....-65 °C to +150 °C
 Temperature Coefficient
 3250±50 ppm/°C
 RT22/RTR22.....±50 ppm/°C
 Seal Test85 °C Fluorinert® (pin styles only)
 HumidityMIL-STD-202 Method 106
 3250(2 % ΔTR; 100 Megohms IR)
 RT22(1 % ΔTR; 10 Megohms IR)
 RTR22(1 % ΔTR; 100 Megohms IR)
 Vibration30 G
 (1 % ΔTR; 0.5 % + resolution ΔVR)
 Shock100 G
 (1 % ΔTR; 0.5 % + resolution ΔVR)
 Load Life
 32501,000 hours 1.0 watt @ 85 °C
 (2 % ΔTR; 500 ohms ENR)
 RT221,000 hours 0.75 watt @ 85 °C
 (2 % ΔTR; 2 % + resolution ΔVR)
 RTR2210,000 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)

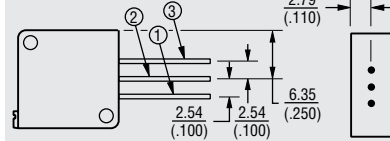
Physical Characteristics

Torque5.0 oz-in. max.
 Mechanical StopsWiper idles
 Terminals
 3250.....Solderable printed circuit pins
 Flexible leads (7 strands of 30 AWG)
 RT22/RTR22MIL-STD-202; Method 208
 Weight0.06 oz.
 Machine Screw Mounting
 Torque12 oz-in. max.
 Marking
 3250.....Manufacturer's trademark,
 resistance code, terminal numbers,
 date code, manufacturer's model
 number and style
 RT22/RTR22Mil-spec part number
 Wiper50 % ± 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

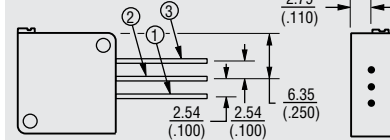
3250P/RT22/RTR22 Common Dimensions (Pin Styles)



3250W/RT22/RTR22



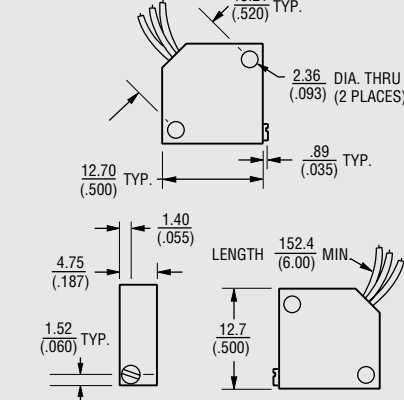
3250W-66/RT22X/RTR22X



"L" Flex Lead Type

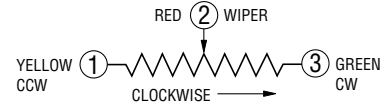
RT22 has mounting slots

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
100	101	0.90
200	201	0.70
500	501	0.60
1,000	102	0.40
2,000	202	0.30
5,000	502	0.25
10,000	103	0.19
20,000	203	0.16
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.

REV. 10/03

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

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