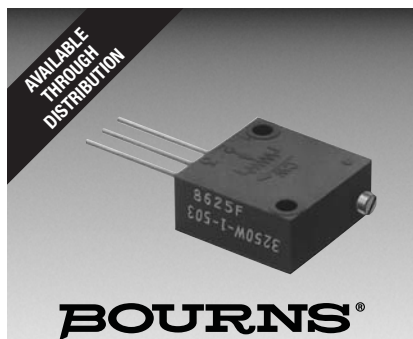




Features

- Multiturn / Wirewound / Sealed
- Listed on the QPL per MIL-PRF-27208 and High-Rel MIL-PRF-39015
- Panel Mount option available
- For trimmer applications/processing guidelines, [click here](#)

RT22/RTR22 - 1/2 " Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
 RT22 50 to 20K ohms
 RTR22 500 to 20K ohms
 (see standard resistance table)
 Resistance Tolerance $\pm 5\%$ std.
 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

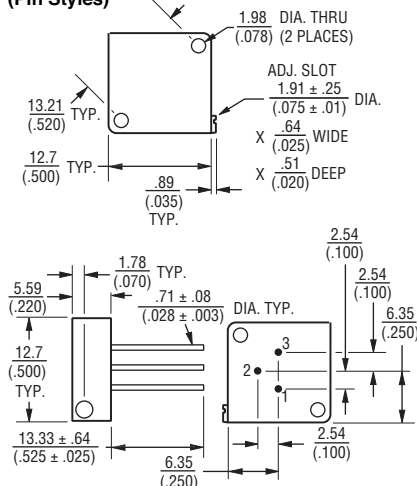
Power Rating @ 85 °C 0.75 watt
 Power Rating @ 150 °C 0 watt
 Temperature Range -65 °C to +150 °C
 Temperature Coefficient ± 50 ppm/°C
 Seal Test 85 °C Fluorinert*
 (pin styles only)
 Humidity MIL-STD-202 Method 106
 RT22 (1 % Δ TR; 10 Megohms IR)
 RTR22 (1 % Δ TR; 100 Megohms IR)
 Vibration 30 G
 (1 % Δ TR; 0.5 % + resolution Δ VR)
 Shock 100 G
 (1 % Δ TR; 0.5 % + resolution Δ VR)
 Load Life
 RT22 1,000 hours 0.75 watt @ 85 °C
 (2 % Δ TR; 2 % + resolution Δ VR)
 RTR22 10,000 hours 0.75 watt
 @ 85 °C
 (3 % Δ TR; 2 % + resolution Δ TR)
 Rotational Life 200 cycles
 (2 % Δ TR)

Physical Characteristics

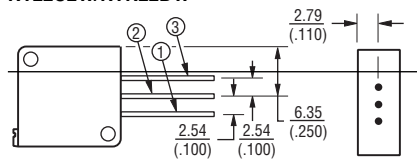
Torque 5.0 oz-in. max.
 Mechanical Stops Wiper idles
 Terminals
 . Flexible leads (7 strands of 30 AWG)
 MIL-STD-202; Method 208
 Weight 0.06 oz.
 Machine Screw Mounting
 Torque 12 oz-in. max.
 Marking Mil-spec part number
 Wiper 50 % (Actual TR) $\pm 10\%$
 Flammability U.L. 94V-0
 Standard Packaging
 P, W & X Styles 25 pcs. per tube
 L Style 25 pcs. per bag
 Adjustment Tool H-90

Product Dimensions

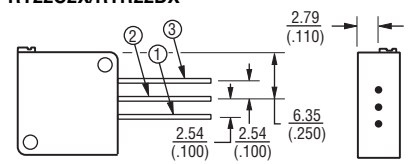
RT22C2P/RTR22DP Common Dimensions (Pin Styles)



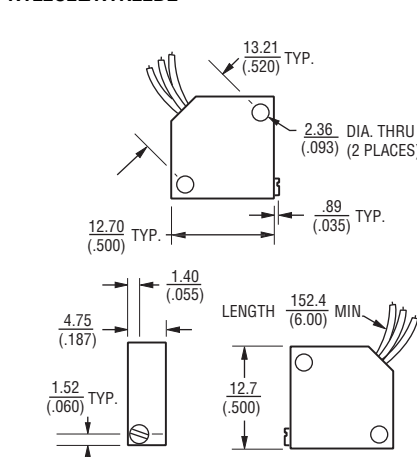
RT22C2W/RTR22DW



RT22C2X/RTR22DX



RT22C2L/RTR22DL



How To Order

MIL-PRF-27208 RT22 C2 P 501

Model
 Characteristic
 C = ± 50 ppm/°C Temp. Coeff. Max.
 2 = 85 °C Rating Temp.
 150 °C Max. Operating Temp.
 Terminal Style
 Resistance Code

How To Order

MIL-PRF-39015 RTR22 D P 501 M

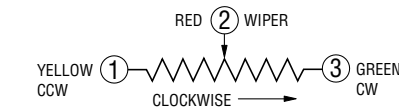
Model
 Characteristic
 D = ± 50 ppm/°C Temp. Coeff. Max.
 Terminal Style
 Resistance Code
 Failure Rate
 M = 1.0 %

RT22 Standard Resistance Table

Resistance (Ohms)	Resistance Code	Nominal Resolution (Percent)
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

RTR22 Standard Resistance Table

Resistance (Ohms)	Resistance Code	Nominal Resolution (Percent)
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



DIMENSIONS: MM (INCHES)
 TOLERANCES: $\pm \frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

REV. 12/12

*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.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.