

BOURNS®

Features

- Multiturn / Wirewound / Industrial / 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](#)



Models RT24 & RTR24 are currently available, although not recommended for new designs.

RT24/RTR24 - 3/8" Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
 RT24..... 10 to 10K ohms
 RTR24 500 to 10K 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 standard resistance table)
 Insulation Resistance 500 vdc.
 1,000 megohms min.
 Dielectric Strength
 Sea Level..... 1,000 vac
 80,000 Feet 350 vac
 Adjustment Travel..... 25 turns nom.

Environmental Characteristics

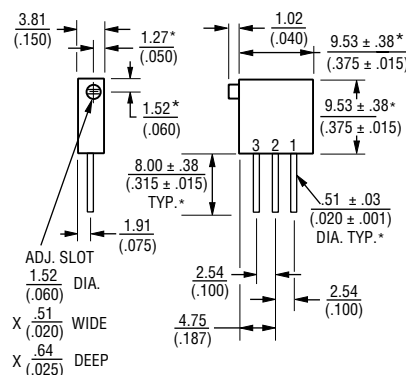
Power Rating @ 85 °C 0.75 watt
 Power Rating @ 150 °C 0 watt
 Temperature Range... -65 °C to +150 °C
 Temperature Coefficient ± 50 ppm/°C
 Seal Test 85 °C Fluorinert*
 Humidity
 RT24..... (1 % Δ TR; 10 Megohms IR)
 RTR24 ... (1 % Δ TR; 100 Megohms IR)
 Vibration 20G
 (1 % Δ TR; 0.5 % + resolution Δ V/R)
 Shock 100G
 (1 % Δ TR; 0.5 % + resolution Δ V/R)
 Load Life
 RT24.. 1,000 hours 0.75 watt @ 85 °C
 (2 % Δ TR; 2 % + resolution Δ V/R)
 RTR24 10,000 hours 0.75 watt
 @ 85 °C
 (3 % + resolution Δ V/R)
 Rotational Life 200 cycles
 (2 % Δ TR)

Physical Characteristics

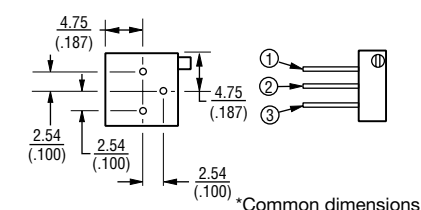
Torque..... 5.0 oz-in. max.
 Mechanical Stops..... Wiper idles
 Terminals MIL-STD-202; Method 208
 Weight 0.025 oz.
 Marking..... Mil-spec part number
 Wiper 50 % (Actual TR) $\pm 10\%$
 Flammability U.L. 94V-0
 Standard Packaging 50 pcs. per tube
 Adjustment Tool..... H-90

Product Dimensions

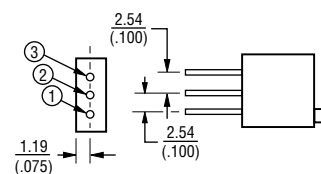
RT24C2X/RTR24DX Common Dimensions



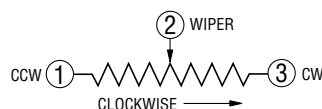
RT24C2P/RTR24DP



RT24C2W/RTR24DW



DIMENSIONS: MM (INCHES)
 TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED



How To Order

MIL-PRF-27208 **RT24 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 **RTR24 D P 202 M**
 Model
 Characteristic
 D = ± 50 ppm/°C Temp. Coeff. Max.
 Terminal Style
 Resistance Code
 Failure Rate
 M = 1.0 %

RT24 Standard Resistance Table

Resistance (Ohms)	Resistance Code	Nominal Resolution (Percent)
10	100	1.11
20	200	0.93
50	500	0.62
100	101	0.60
200	201	0.54
500	501	0.42
1,000	102	0.33
2,000	202	0.26
5,000	502	0.20
10,000	103	0.17

RTR24 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

REV. 08/10

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

"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.