

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](#)

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	±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 % ΔTR; 10 Megohms IR)
RTR24...(1 % ΔTR; 100 Megohms IR)	
Vibration	20G (1 % ΔTR; 0.5 % + resolution ΔVR)
Shock.....	100G (1 % ΔTR; 0.5 % + resolution ΔVR)
Load Life	
RT24 .1,000 hours 0.75 watt @ 85 °C (2 % ΔTR; 2 % + resolution ΔVR)	
RTR24..... 10,000 hours 0.75 watt @ 85 °C (3 % + resolution ΔVR)	
Rotational Life.....	200 cycles (2 % ΔTR)

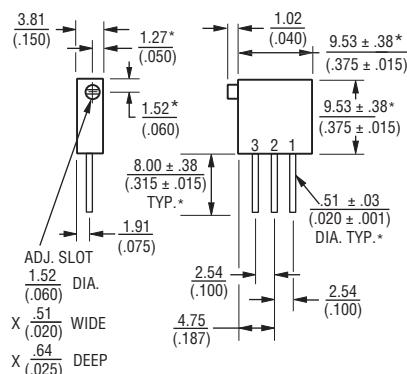
Physical Characteristics

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) ±10 %
Flammability	U.L. 94V-0
Standard Packaging	50 pcs. per tube
Adjustment Tool	H-90

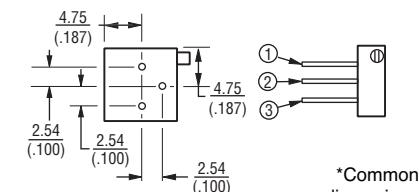
Product Dimensions

RT24C2X/RTR24DX

Common Dimensions

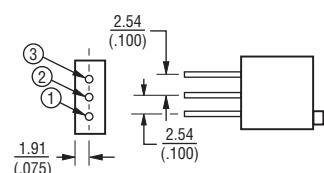


RT24C2P/RTR24DP

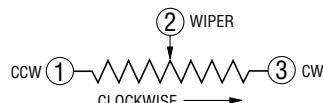


*Common dimensions

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