



BOURNS®

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	± 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 % 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	
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 (2 % ΔTR)

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) ±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

REV. 04/14

*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.

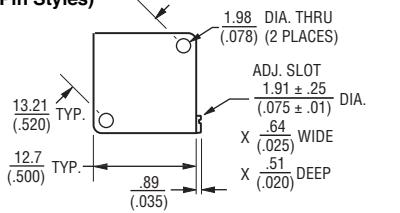
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

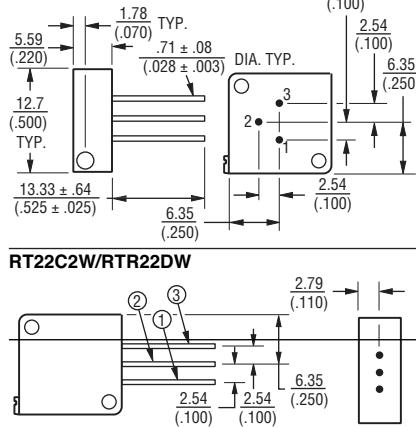
Product Dimensions

RT22C2P/RTR22DP

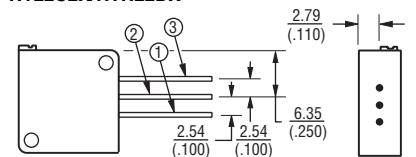
Common Dimensions (Pin Styles)



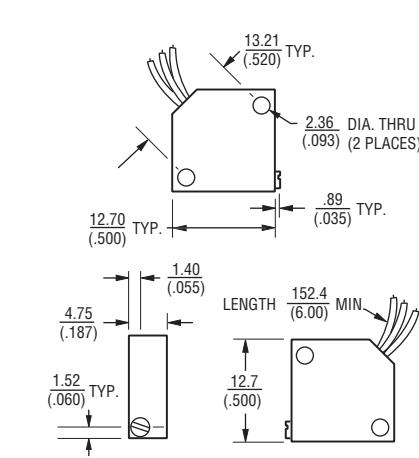
RT22C2W/RTR22DW



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

