

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	
RTR22	500 to 20K ohms
(see standa	rd resistance table)
Resistance Tolerance	±5 % std.
Absolute Minimum Re	esistance

	0.1 % or 1 ohm max
	(whichever is greater)
Noise	100 ohms ENR max
Resolution	See Resistance Table
Insulation Resistar	nce 500 vdc
	1,000 megohms min

Dielectric Strength	•
Sea Level	1,000 vac
80,000 Feet	
Adjustment Travel	25 turns nom.

Environmental Characteristics

Power Rating @ 85 °C 0.75 wat Power Rating @ 150 °C 0 wat Temperature Range65 °C to +150 °C Temperature Coefficient±50 ppm/°C Seal Test
(pin styles only)
Humidity MIL-STD-202 Method 106
RT22(1 % \(\Delta TR; 10 \) Megohms IR
RTR22(1 % ΔTR; 100 Megohms IR)
Vibration
(1 % Δ TR; 0.5 % + resolution Δ VR)
Shock100 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

Physical Characteristics

	5.0 oz-in. max.
	Wiper idles
Terminals	
	7 strands of 30 AWG)
MIL-S	STD-202; Method 208
	0.06 oz.
Machine Screw Mo	
Torque	12 oz-in. max.
Marking	Mil-spec part number

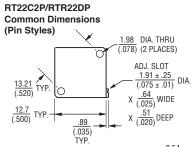
(3 % Δ TR; 2 % + resolution Δ TR) Rotational Life.....200 cycles

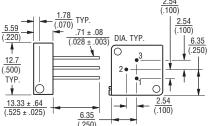
(2 % ΔTR)

Marking	Mil-spec part number
Wiper	50 % (Actual TR) ±10 %
Flammability	U.Ĺ. 94V-0
Standard Pack	aging
P, W & X Sty	les 25 pcs. per tube

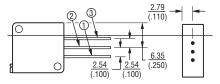
P, W & X Styles	25 pcs. per tube
L Style	25 pcs. per bag
Adjustment Tool	H-90

Product Dimensions



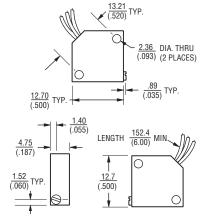


RT22C2W/RTR22DW



RT22C2X/RTR22DX 2 3 2.79 (.110) 2.54 (.100) 2.54 (.250)

RT22C2L/RTR22DL



How To Order

MIL-PRF-27208	RT22 C2 P 50
Model —	
Characteristic ————————————————————————————————————	. Coeff. Max.
2 = 85 °C Rating Temp 150 °C Max. Oper	
Terminal Style ————	

How To Order

Resistance Code

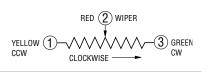
now to Order		
MIL-PRF-39015	RTR22 D P 501	M
Model —		
Characteristic ————————————————————————————————————		
Terminal Style ——		
Resistance Code —		
Failure Rate ———		_

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 20,000	103 203	0.23 0.19 0.16



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



Legal Disclaimer Notice



This legal disclaimer applies to purchasers and users of Bourns® products manufactured by or on behalf of Bourns, Inc. and its affiliates (collectively, "Bourns").

Unless otherwise expressly indicated in writing, Bourns® products and data sheets relating thereto are subject to change without notice. Users should check for and obtain the latest relevant information and verify that such information is current and complete before placing orders for Bourns® products.

The characteristics and parameters of a Bourns® product set forth in its data sheet are based on laboratory conditions, and statements regarding the suitability of products for certain types of applications are based on Bourns' knowledge of typical requirements in generic applications. The characteristics and parameters of a Bourns® product in a user application may vary from the data sheet characteristics and parameters due to (i) the combination of the Bourns® product with other components in the user's application, or (ii) the environment of the user application itself. The characteristics and parameters of a Bourns® product also can and do vary in different applications and actual performance may vary over time. Users should always verify the actual performance of the Bourns® product in their specific devices and applications, and make their own independent judgments regarding the amount of additional test margin to design into their device or application to compensate for differences between laboratory and real world conditions.

Unless Bourns has explicitly designated an individual Bourns® product as meeting the requirements of a particular industry standard (e.g., ISO/TS 16949) or a particular qualification (e.g., UL listed or recognized), Bourns is not responsible for any failure of an individual Bourns® product to meet the requirements of such industry standard or particular qualification. Users of Bourns® products are responsible for ensuring compliance with safety-related requirements and standards applicable to their devices or applications.

Bourns® products are not recommended, authorized or intended for use in nuclear, lifesaving, life-critical or life-sustaining applications, nor in any other applications where failure or malfunction may result in personal injury, death, or severe property or environmental damage. Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any Bourns® products in such unauthorized applications might not be safe and thus is at the user's sole risk. Life-critical applications include devices identified by the U.S. Food and Drug Administration as Class III devices and generally equivalent classifications outside of the United States.

Bourns expressly identifies those Bourns® standard products that are suitable for use in automotive applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns® standard products in an automotive application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk. If Bourns expressly identifies a sub-category of automotive application in the data sheet for its standard products (such as infotainment or lighting), such identification means that Bourns has reviewed its standard product and has determined that if such Bourns® standard product is considered for potential use in automotive applications, it should only be used in such sub-category of automotive applications. Any reference to Bourns® standard product in the data sheet as compliant with the AEC-Q standard or "automotive grade" does not by itself mean that Bourns has approved such product for use in an automotive application.

Bourns® standard products are not tested to comply with United States Federal Aviation Administration standards generally or any other generally equivalent governmental organization standard applicable to products designed or manufactured for use in aircraft or space applications. Bourns expressly identifies Bourns® standard products that are suitable for use in aircraft or space applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns® standard product in an aircraft or space application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk.

The use and level of testing applicable to Bourns® custom products shall be negotiated on a case-by-case basis by Bourns and the user for which such Bourns® custom products are specially designed. Absent a written agreement between Bourns and the user regarding the use and level of such testing, the above provisions applicable to Bourns® standard products shall also apply to such Bourns® custom products.

Users shall not sell, transfer, export or re-export any Bourns® products or technology for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor shall they use Bourns® products or technology in any facility which engages in activities relating to such devices. The foregoing restrictions apply to all uses and applications that violate national or international prohibitions, including embargos or international regulations. Further, Bourns® products and Bourns technology and technical data may not under any circumstance be exported or re-exported to countries subject to international sanctions or embargoes. Bourns® products may not, without prior authorization from Bourns and/or the U.S. Government, be resold, transferred, or re-exported to any party not eligible to receive U.S. commodities, software, and technical data.

To the maximum extent permitted by applicable law, Bourns disclaims (i) any and all liability for special, punitive, consequential, incidental or indirect damages or lost revenues or lost profits, and (ii) any and all implied warranties, including implied warranties of fitness for particular purpose, non-infringement and merchantability.

For your convenience, copies of this Legal Disclaimer Notice with German, Spanish, Japanese, Traditional Chinese and Simplified Chinese bilingual versions are available at:

Web Page: http://www.bourns.com/legal/disclaimers-terms-and-policies

PDF: http://www.bourns.com/docs/Legal/disclaimer.pdf

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Trimmer Resistors - Through Hole category:

Click to view products by Bourns manufacturer:

Other Similar products are found below:

56PR250K M63M102KB30T607 M63M103KB40 M63M501KB40 M63P102KB30T607 M63P105KB30T607 M63P202KB40 M63P202KB40 M63P203KB30T607 M63P203KB30T607 M63P205KB30T607 M63P501KB40 M63P502KB40 M63S102KB40 M63S103KB40 M63S103KB40 M63X101KB40 M63X103KB40 M63X104KB40 M63X253KB40 M63X501KB40 M63X503KB40 M70Y102KB25 76PR500K 79PR5K P8PY103KB25 CT6P-103 M63M102KB40 M63M104KB40 M63M502KB40 M63P102KB40 M63P103KB30T640 M63P103KB40 M63P104KB30T607 M63P104KB40 M63P204KB40 M63P504KB40 M63S502KB40 M63S502KB40 M63X105KB40 M63X502KB40 M70Y203KB25 M70Y502KB25 404806505008 388N-100 409HA102M 4270W105K 56PR2MEG 82PR2KLFTB 416MA504P SK 104 25,4 STC TO 220 9702-2SL-1