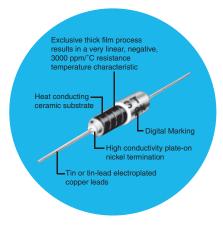
Resistors Obsolete

Thick Film Temperature Compensation Resistor

RGT Series

- Superior linearity
- Stable thick-film technology
- Negative temperature coefficient
- Effective compensation for positive TC devices, semiconductors, and copper





All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

Specific	cations
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Temperature CoefficientResistance Ratio-0.30%/°C (minus 3000 ppm/°C @ 25°C)R25°C/R125°C = 1.37		Linearity	Standard Resistance Values	Std. Resistance Tol. @ 25°C ±2%, ±5%, ±10%	
		<1.2% deviation per 100°C (typical over range from -55°C to 140°C)	740, 1K and 10K. Others available		
Operating Temperature Range	High Temp Stability	Time Constraints	Dissipation Constants	Element	
-55°C to + 175°C 2000 hours @ 175°C, <0.5%ΔR		7.4 sec for RGT-1, 2.9 sec. for RGT-2 (time to achieve 63.2% of an applied step-change in temperature in still air)	8.1mW/°C for RGT-1, 4.7mW°C for RGT-2 (power required to raise sensor temperature 1°C in a still air ambient of 25°C)	fused thick-film composition	
Substrate	Lead Pull	Resistance to Soldering Heat	Marking Resistance to Solvents	Lead Solderability	
solid-core alumina ceramic 5 lbs for 5 sec.		MIL-STD-202E, Method 210A, cond. A, <0.5%∆R	MIL-STD-202, Method 215	MIL-STD-202, Method 208	

Applications

Compensates transistors, diodes, sensors, transducers, hall devices, microprocessors, and strain gauges. Proven in automotive under-hood use.

Curve Tolerances (±)

Temperature		G Tol.	J Tol.	K Tol.	
-55°C	-67°F	7%	10%	15%	
-15°C	+9°F	4.5%	7.5%	12.5%	
0°C	+32°F	3.6%	6.6%	11.6%	
25°C	77°F	±2%	±5%	±10%	
50°C	122°F	2.5%	5.5%	10.5%	
75°C	167°F	3.0%	6.0%	11.0%	
100°C	212°F	3.5%	6.5%	11.5%	
125°C	257°F	4.0%	7.0%	12.0%	
150°C	302°F	4.5%	7.5%	12.5%	
175°C	347°F	5.0%	8.0%	13.0%	

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

www.ttelectronicsresistors.com

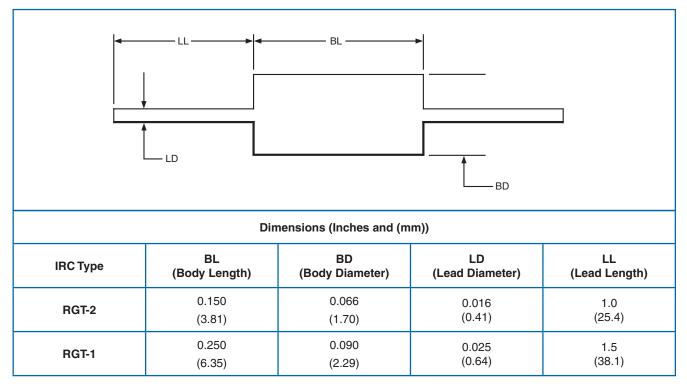


RGT Series

Resistance vs. Temperature

°C	°F	R in Ω s*	°C	°F	R in Ω s*	°C	°F	R in Ω s*
-60 -40 -30 -20 -10 0 +10 +20 +25 +30	-76 -40 -22 -4 +14 +32 +50 +68 +77 +86	1285.2 1208.5 1173.4 1139.3 1106.3 1074.6 1044.1 1014.6 1000.0 985.5	+40 +50 +60 +70 +75 +80 +90 +100 +110 +120	+104 +122 +140 +158 +167 +176 +194 +212 +230 +248	956.7 928.2 900.2 872.3 858.7 845.2 818.8 793.2 768.5 745.1	+125 +130 +140 +150 +160 +170 +180 +230	+257 +266 +284 +302 +320 +338 +356 +446	734.0 723.2 703.7 685.8 669.3 653.8 639.7 582.9

Physical Data



General Note

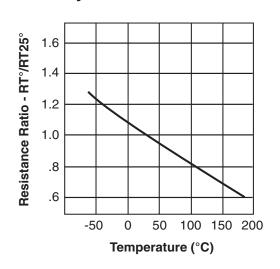
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Thick Film Temperature Compensation Resistor RGT Series



Linearity



Ordering Data

Sample Part No RGT 2 -3000 1002 G LF]
IRC Type	
Size	
TCR (-3000 ppm)	
Resistance Value · · · · · · · · · · · · · · · · · · ·	
Tolerance G = 2%, J = 5%, K = 10%)	
RoHS Compliant Option	

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