



State of the Art, Inc.

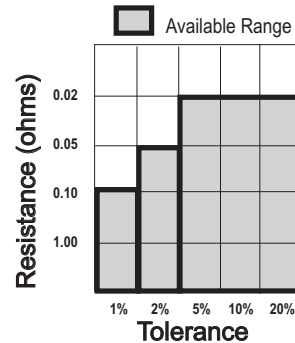
2512 Size, Current Sense Chip Resistor

Surface Mount, 4 - Terminal Kelvin

PERFORMANCE CHARACTERISTICS

Resistance Range	0.020 Ohms -1 Ohm
Tolerances	1%, 2%, 5%, 10%, 20%
Thermal Resistance	67.4 °C/W
Maximum Power	1000 mW
Maximum Voltage	200 Volts

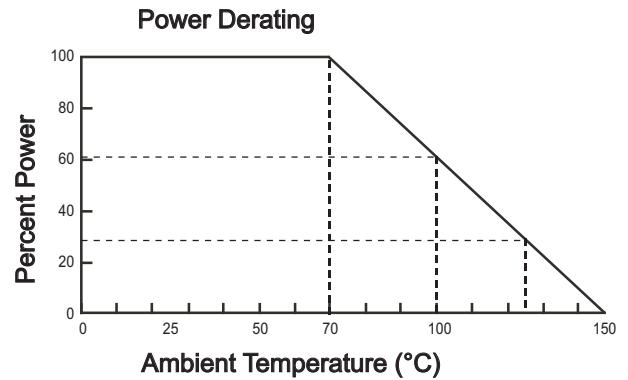
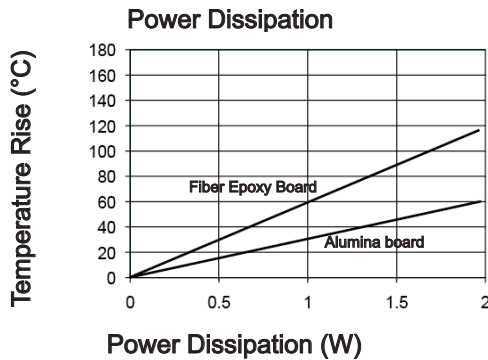
Resistance Table



ENVIRONMENTAL PERFORMANCE *

TCR (-55° + 125°C in ppm/°C)	<800 ppm
Thermal Shock	±0.03%
Low Temperature Operation	±0.02%
Short-time Overload	±0.02%
Resistance to Bonding Exposure	±0.03%
Moisture Resistance	±0.05%
High Temperature Exposure	±0.05%

*Typical resistance change. Test methods are per MIL-PRF-55342.



PART NUMBERING

S 2512 C K X 0R02 J 80 -W

PACKAGING CODE: -TR: Tape & Reel -W: Waffle Carrier (Default packaging is Bulk)

10 ± 100ppm 80 ± 800ppm

TOLERANCES: F:1% G: 2% J: 5% K:10% M: 20%

RESISTANCE VALUE:
Value in ohms. The letter "R" is used to represent the decimal.

TERMINATION FINISH: X: Sn60 over nickel barrier C: Silver bearing (Epoxy bondable-RoHS) G: Gold (Epoxy bondable-RoHS)

PRODUCT DESIGNATION: K: Four Terminal Kelvin Resistor

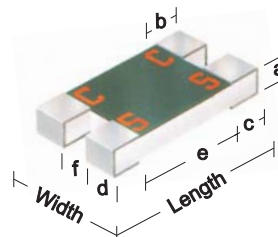
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

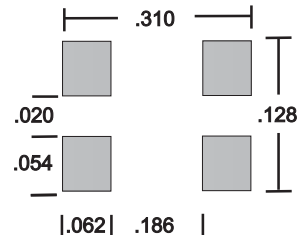
GRADE: S: Standard Production H: High Reliability (For screening options, contact the factory)

MECHANICAL

	INCHES	MILLIMETERS
Length	.250 (.248 - .258)	6.35 (6.30 - 6.55)
Width	.120 (.118 - .126)	3.05 (3.00 - 3.20)
Thickness (a)	.028 (.023 - .033)	0.71 (0.58 - 0.84)
Top Conductor Length (b)	.028 (.023 - .033)	0.71 (0.58 - 0.84)
Bottom Conductor Length (c)	.030 (.025 - .035)	0.76 (0.64 - 0.89)
Bottom Conductor Width (d)	.050 (.046 - .054)	1.27 (1.17 - 1.37)
Bottom Conductor Gap Length (e)	.190 (.186 - .194)	4.83 (4.72 - 4.93)
Bottom Conductor Gap Width (f)	.020 (.016 - .024)	0.51 (0.41 - 0.61)
Approx. Weight	.0513 grams	



MINIMUM RECOMMENDED MOUNTING PADS (INCHES)



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www.resistor.com All products made in the USA Cage Code : 56235

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