



# State of the Art, Inc.

## 2010 Size, Current Sense Chip Resistor

### Surface Mount, 4 - Terminal Kelvin

#### PERFORMANCE CHARACTERISTICS

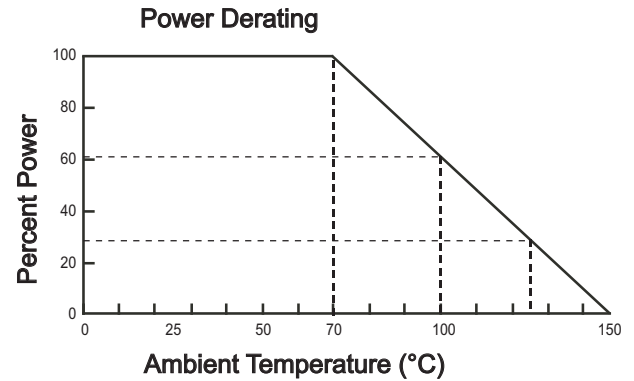
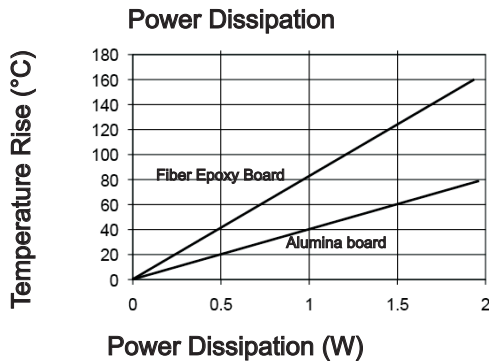
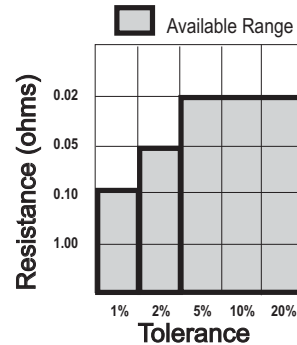
Resistance Range	0.020 Ohms -1 Ohm
Tolerances	1%, 2%, 5%, 10%, 20%
Thermal Resistance	73.3 °C/W
Maximum Power	650 mW
Maximum Voltage	150 Volts

#### 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.

#### Resistance Table



#### PART NUMBERING

**S 2010 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

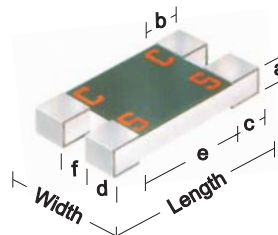
SIZE CODE

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

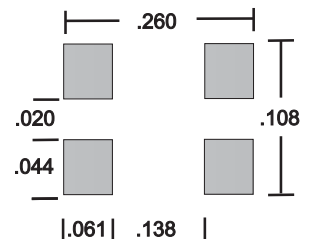
#### MECHANICAL

	INCHES	MILLIMETERS
Length	.200 (.198 - .208)	5.08 (5.03 - 5.28)
Width (a)	.100 (.098 - .106)	2.54 (2.49 - 2.69)
Thickness	.028 (.023 - .033)	0.28 (0.58 - 0.84)
Top Conductor Length (b)	.027 (.022 - .032)	0.69 (0.56 - 0.81)
Bottom Conductor Length (c)	.029 (.024 - .034)	0.74 (0.61 - 0.86)
Bottom Conductor Width (d)	.040 (.036 - .044)	1.02 (0.91 - 1.12)
Bottom Conductor Gap Length (e)	.142 (.138 - .146)	3.61 (3.51 - 3.71)
Bottom Conductor Gap Width (f)	.020 (.016 - .024)	0.51 (0.41 - 0.61)

Approx. Weight 0.0332 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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