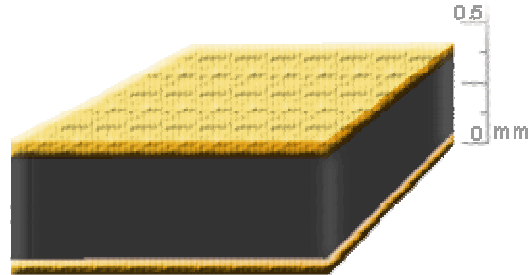


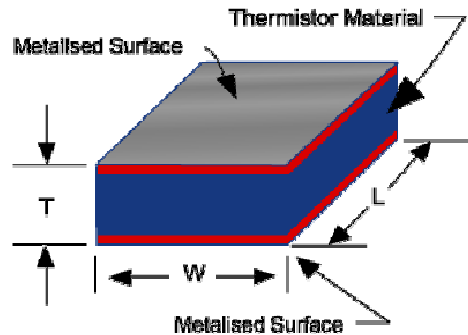
## Leadless Gold Chip

### Introduction



BetaTHERM Sensors offer high reliability Gold terminated leadless BetaCHIP thermistors that meet today's hybrid microelectronics needs. With metalization on top and bottom surfaces, attachment to hybrid, IC or PC circuits is accomplished using industry standard die attach and wire bonding techniques. Chips may be soldered or conductive epoxied to board termination points where space is at a premium. Typical chip sizes (1mm x 1mm x 0.25mm thick) allow for accurate robotic placement. Gold BetaCHIP thermistors are supplied in "gel" or "waffle" packs.

### Shape and Dimensions



#### Features

- Rapid Time Response (<1 second typical in liquids).
- Standards supplied with  $\pm 5\%$  and  $\pm 10\%$  tolerance.
- $\pm 1\%$  and  $\pm 2\%$  available upon request.
- Surface Mount Capability.
- 1 mW/°C Dissipation Constant in air at 25°C.
- Uniformly Sized for Pick & Place Assembly.
- Higher precision tolerance available.
- Square and Rectangular Configurations.
- RoHS Compliant

#### Applications

- WDM (Wavelength Division Multiplexing) for advanced frequency control in modern communications systems and wireless applications.
- Thermopile sensors for thermal radiation recognition and infrared sensing.
- Thermal protection of sensitive circuits.
- Hybrid circuit temperature compensation.
- Localized temperature sensing.



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HL Planar Technik GmbH  
Measurement Specialties

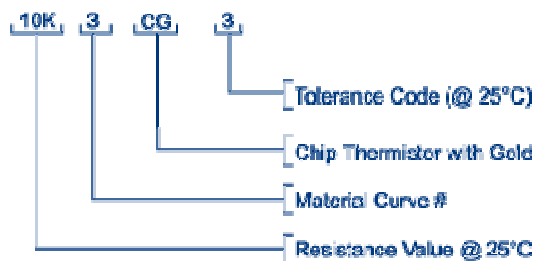
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## Part Numbering System



## Electrical Specifications

Part Number ±5% @ 25°C	Part Number ±10% @ 25°C	Resistance @ 25°C (Ohms)	Alpha @25 °C	0/50°C Beta Value	Curve #	Nominal Chip Dimensions (mm)			Nominal Chip Dimensions (inches)		
						L	W	T	L	W	T
<a href="#">0.1K1CG3</a>	<a href="#">0.1K1CG2</a>	100	-3.50%	3108	1	1.3971	1.3970	0.305	0.055	0.055	0.012
<a href="#">0.3K1CG3</a>	<a href="#">0.3K1CG2</a>	300	-3.50%	3108	1	0.9140	0.9140	0.381	0.036	0.036	0.015
<a href="#">1K2CG3</a>	<a href="#">1K2CG2</a>	1000	-3.68%	3263	2	0.7620	0.7620	0.381	0.030	0.030	0.015
<a href="#">1K7CG3</a>	<a href="#">1K7CG2</a>	1000	-3.87%	3422	7	1.0671	1.0670	0.381	0.042	0.042	0.015
<a href="#">2.2K3CG3</a>	<a href="#">2.2K3CG2</a>	2252	-4.39%	3892	3	1.9051	1.9050	0.254	0.075	0.075	0.010
<a href="#">3K3CG3</a>	<a href="#">3K3CG2</a>	3000	-4.39%	3892	3	1.6511	1.6510	0.254	0.065	0.065	0.010
<a href="#">5K3CG3</a>	<a href="#">5K3CG2</a>	5000	-4.39%	3892	3	1.3971	1.3970	0.305	0.055	0.055	0.012
<a href="#">10K3CG3</a>	<a href="#">10K3CG2</a>	10000	-4.39%	3892	3	1.0161	1.0160	0.305	0.040	0.040	0.012
<a href="#">10K4CG3</a>	<a href="#">10K4CG2</a>	10000	-4.04%	3575	4	1.1431	1.1430	0.254	0.045	0.045	0.010
<a href="#">30K5CG3</a>	<a href="#">30K5CG2</a>	30000	-4.30%	3811	5	0.8890	0.8890	0.381	0.035	0.035	0.015
<a href="#">30K6CG3</a>	<a href="#">30K6CG2</a>	30000	-4.68%	4143	6	1.3971	1.3970	0.305	0.055	0.055	0.012
<a href="#">50K6CG3</a>	<a href="#">50K6CG2</a>	50000	-4.68%	4143	6	1.1431	1.1430	0.381	0.045	0.045	0.015
<a href="#">100K6CG3</a>	<a href="#">100K6CG2</a>	100000	-4.68%	4143	6	0.8890	0.8890	0.381	0.035	0.035	0.015
<a href="#">1M9CG3</a>	<a href="#">1M9CG2</a>	1000000	-5.20%	4582	9	0.8890	0.8890	0.254	0.035	0.035	0.010

For details on the minimum order quantity (MOQ) of this product, please contact BetaTHERM Sensors or your local BetaTHERM Sensors representative

[sale.china@meas-spec.com](mailto:sale.china@meas-spec.com)



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