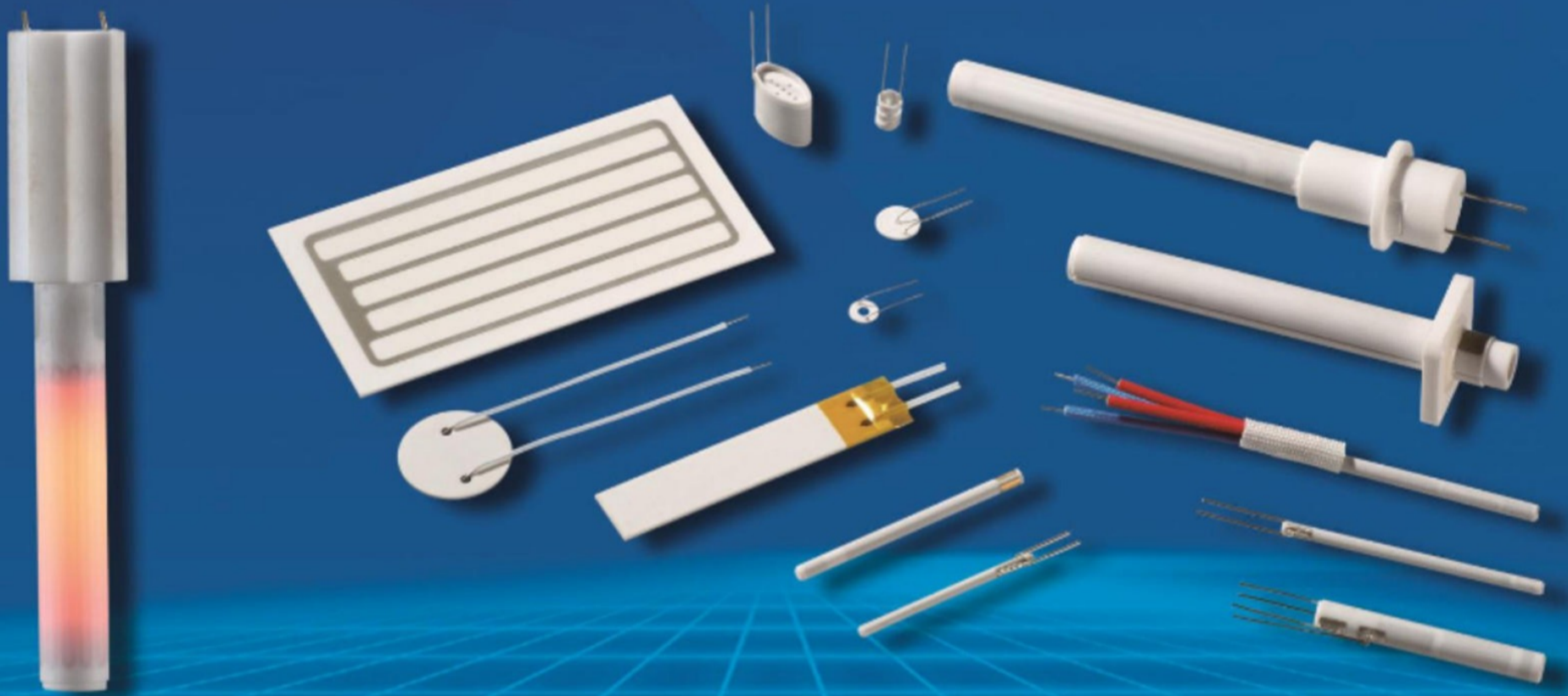




格物致知 睿达悟道

厦门格睿伟业电子科技有限公司

Xiamen Green Way Electronic Technology Co.Ltd



做中国最具影响力的陶瓷发热元件制造商
We devote to becoming the most influential ceramic heater manufacturer in China.

企业简介

Company introduction

厦门格睿伟业电子科技有限公司成立于 2010 年 3 月，地处福建省厦门市火炬高新区，该地区资源聚集，地理位置优越，交通便利。公司以专业的陶瓷发热件生产和研发为基础，坚持技术创新，锐意进取，不断拓宽产品和市场领域，是一家集产品开发、生产与销售于一体的高新科技型企业。英文名“Xiamen Green Way Electronic Technology co.,LTD”，取“绿色之路”之意，意在不断开发节能便捷的新产品，倡导安全、健康、绿色环保的新生活方式。

本公司有雄厚的技术力量，精良的生产设备，齐全的检测手段，先进的生产工艺，建立了完善的管理制度，实行严格的品质管控程序，于 2010 年通过了 ISO9001:2008 质量体系认证。2012 年获得高新技术企业证书，并取得多项专利证书。

Xiamen Green Way Electronic Technology Co. Ltd was found on 2010.3 located in Xiamen, Fujian Province with a very convenient transportation and rich social resources. It is a professional manufacturer of ceramic heating elements. Green Way focus more on a safety, healthy,energy-saving and environmental-friendly living way.

Heaters are widely used in soldering iron/station; oxygen sensor/instant water heater/3D Printer/E-cig/ metalized ceramics and pellet burner ect. that required small environmental-friendly heater element with very fast heating time.

With professional R&D team, advanced equipments and strictly on-line production quality control system, best products will be supplied.

Customization is acceptable and welcome.

ISO 9001:2008 was successfully obtained since 2010.

In 2012,Green Way was granted hour of Advanced-Tech enterprises.

More and more patents were obtained now.



公司办公楼

The company office

格物致知 睿达悟道

“格物致知”

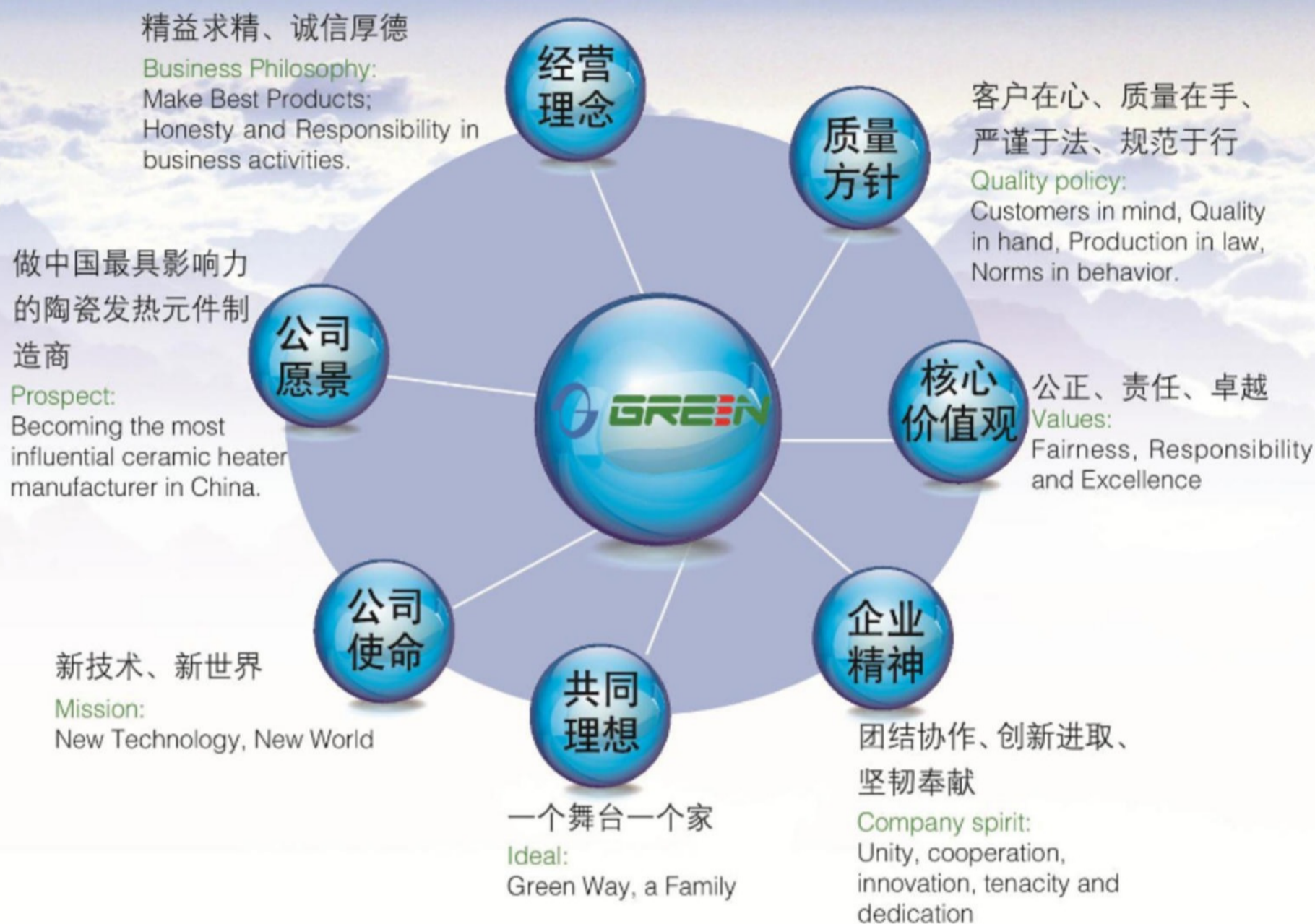
这一词语最早见于先秦经典《礼记·大学》，是该书所提出的儒者求学八阶段的初始两个阶段：“古人欲明明德于天下者，先治其国；欲治其国者，先齐其家；欲齐其家者，先修其身；欲修其身者，先正其心；欲正其心者，先诚其意；欲诚其意者，先致其知。致知在格物。格物而后知至，知至而后意诚，意诚而后心正，心正而后身修，身修而后家齐，家齐而后国治，国治而后天下平”。

“睿达悟道”

“睿达” ---- 聪明，智慧通达。

“悟” ---- 领会、领悟、觉悟、开悟。

“道” ---- 是老子首创的含有深刻哲理意义的概念。道的本意是道路，引申为事物运动变化所遵循的秩序、方法、规则。除此之外，道的哲学内涵是宇宙本原。



尺寸、精度

Configuration and Dimension

形状 Configuration	尺寸 Dimension(mm)			精度 Tolerance(mm)	电阻公差 Resistance Tolerance
平板型 Plate	长度 Length L(mm)	宽度 Width W(mm)	厚度 Thickness T(mm)	$L*W: \leq 20 \pm 0.3;$ $\geq 20 \pm 1$ $T: \leq 1 \pm 0.1;$ $\geq 1 \pm 0.15$	± 10%
	10~120	2~60	0.55~2		
棒型 Rod	长度 Length L(mm)	外径 Diameter(mm)		$l: \leq 30 \pm 0.5;$ $30 \sim 100 \pm 1;$ $\geq 100 \pm 1.5$ $OD: \leq 5 \pm 0.1;$ $5 \sim 9 \pm 0.2;$ $\geq 9 \pm 0.3$	± 10%
	8~121	2.5~8			
管型 Tube	8~121	2.5~20			± 10%

热特性

Thermal Properties

项目 Item	单位 Unit	氧化铝发热件 Alumina Heater
最高使用温度 Max. Working temperature	°C	1050
工作温度 Working temperature	°C	850
热传导率 Thermal conductivity	W/(m · k)	21
比热 Specific Heat	J/(kg · k)	0.78×10^3
线膨胀率 Expansion	/°C (40 ~ 800°C)	0.78×10^{-6}
维氏硬度 (负荷 500g) Hardness(load 500g)	Gpa	13.5
3点弯曲 Flexural	Mpa	320

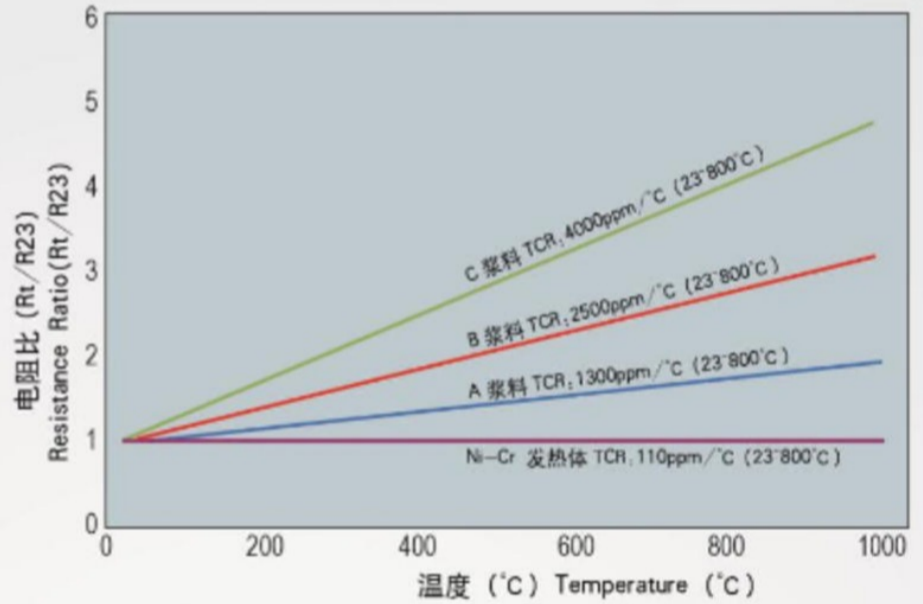
上述数值是根据试验产品测定得出的参数值。*特性值可能会根据产品的形状及使用条件的不同而有所不同。*详细情况请向我公司销售部门确认
 These values are reference by the measurement of test pieces.*The characteristic value might differ depending on shape and use conditions of products. *Please confirm with our sales for detail.

升温特性列举

Examples of Temperature vs. Time and Current vs. Time

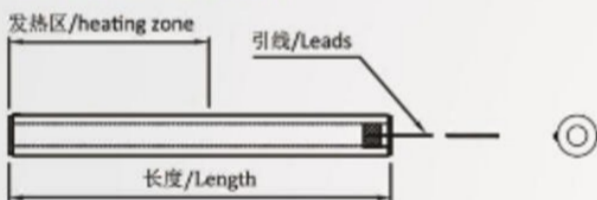
电阻比和温度 Resistance Ratio vs. Temperature

材料 Material	A 浆料 Material A	B 浆料 Material B	C 浆料 Material C	镍铬合金 发热体 Ni-Cr Heater
温度 Tem				
23°C	1	1	1	1
450°C	1.559	2.075	2.935	1.0473
800°C	2.014	2.95	4.51	1.0858



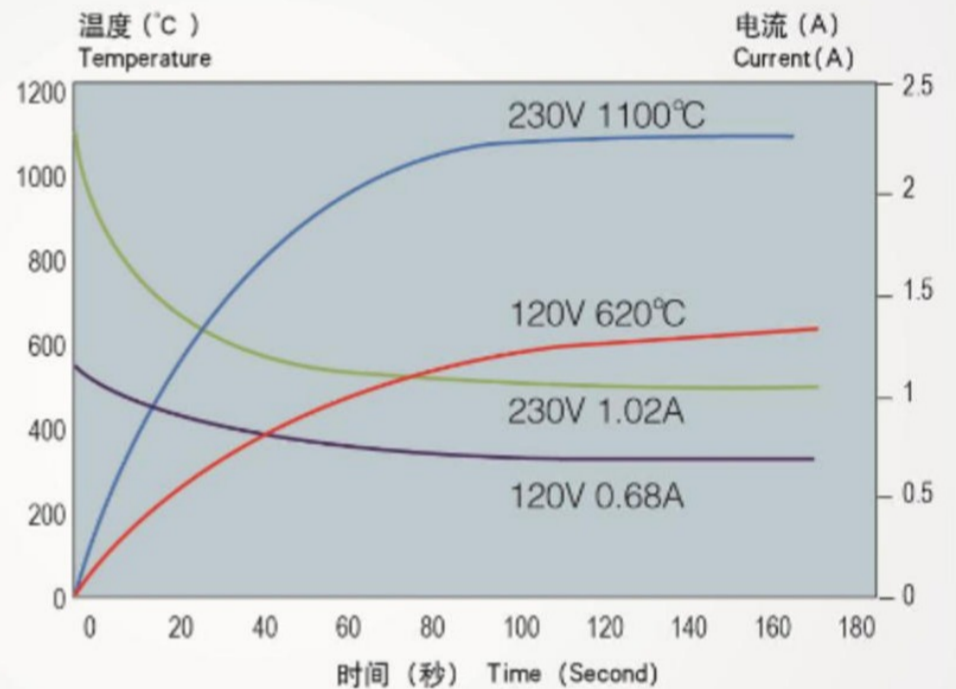
管状发热件 Tube Type Heater

● 形状 Configuration



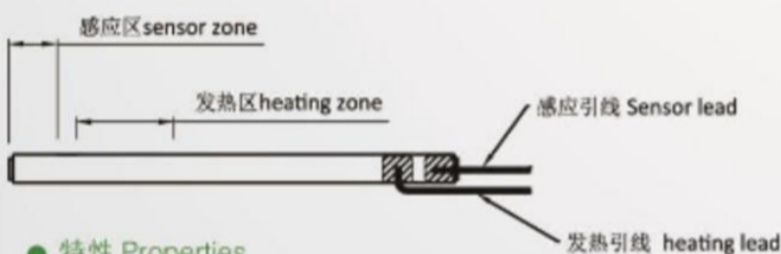
● 特性 Properties

环境温度 Room temperature	23°C
发热件电阻 Resistance (@23°C)	104 Ω
瓦特数 Watts (@230V)	235W
瓦特数 Watts (@120V)	82W



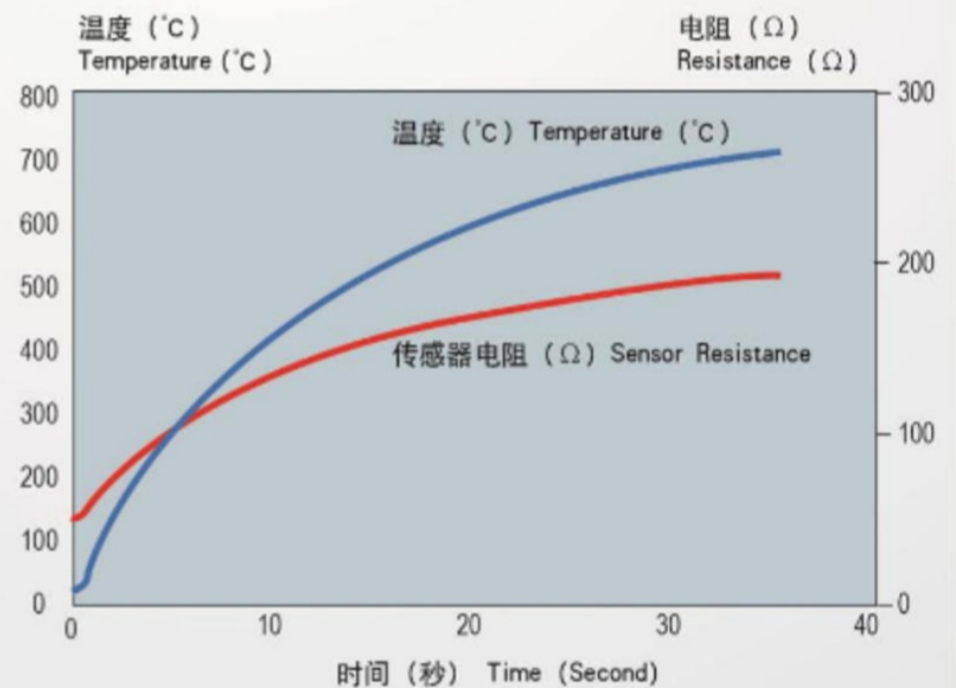
带传感器发热件 Heater With Sensor

● 形状 Configuration



● 特性 Properties

环境温度 Room temperature	23°C
传感器电阻 Sensor resistance (@23°C)	50 Ω
传感器电阻 Sensor resistance (@750°C)	190 Ω
发热件瓦特数 Watts	50W



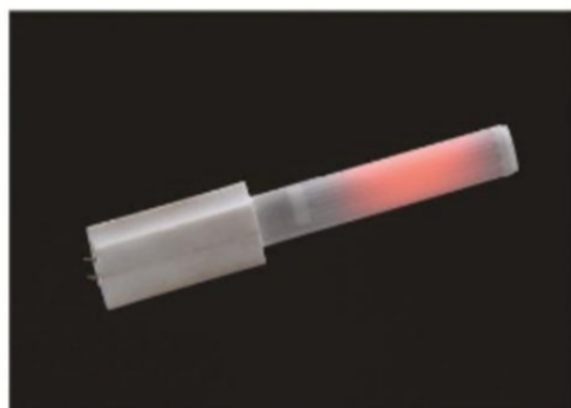
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产品特点和应用领域

Heater characteristic and application

● 点火器

Ceramic Pellet Igniter



适用于点火风机，可以点燃木屑、木柴、煤砖等。加热件内部和外部的热能可以通过空气传递，工作温度可以达到 900°C 以上。

Heater surface can reach a permanent working temperature above 900°C ;

Since air can through and around inside and outside of the heater tube,

Heat can be transferred from both inside and outside of the heater element.

Igniting wood chips, firewood, coal bricks or other biomass fuel.

★产品可根据客户需要定制

★ Customization is welcome according to customers' specific requirement.

● 电子烟 /3D 打印机用陶瓷发热件 *E-cig/3D Printer heating element*

可适用于各种低电压设备（电池），如电子烟、3D 打印机等。陶瓷发热件发热均匀、内外壁可同时加热；无铅，安全环保；表面容易清洁且陶瓷壁最薄可至 0.55mm。

Both inner and outside heater wall can heating and evenly; Lead-free. Healthy, edible and environmental-friendly. Self-cleaning and the heater wall can as thin as 0.55mm.

It is popular in E-Cig, 3D printer ect.

★产品可根据客户需要定制

★ Customization is welcome according to customers' specific requirement.



● 氧传感器用陶瓷发热芯 *Ceramic Heater for Oxygen Sensor*

可适用于汽油发动机汽车尾气检测传感器使用，陶瓷加热件由于升温迅速，可快速帮助传感器进入工作状态，有利于降低尾气排放。

Due to rapid heating speed that help oxygen sensor in work condition very fast thereby reduce the gas exhaust.

Widely used in auto/motor oxygen sensor system.

★产品可根据客户需要定制

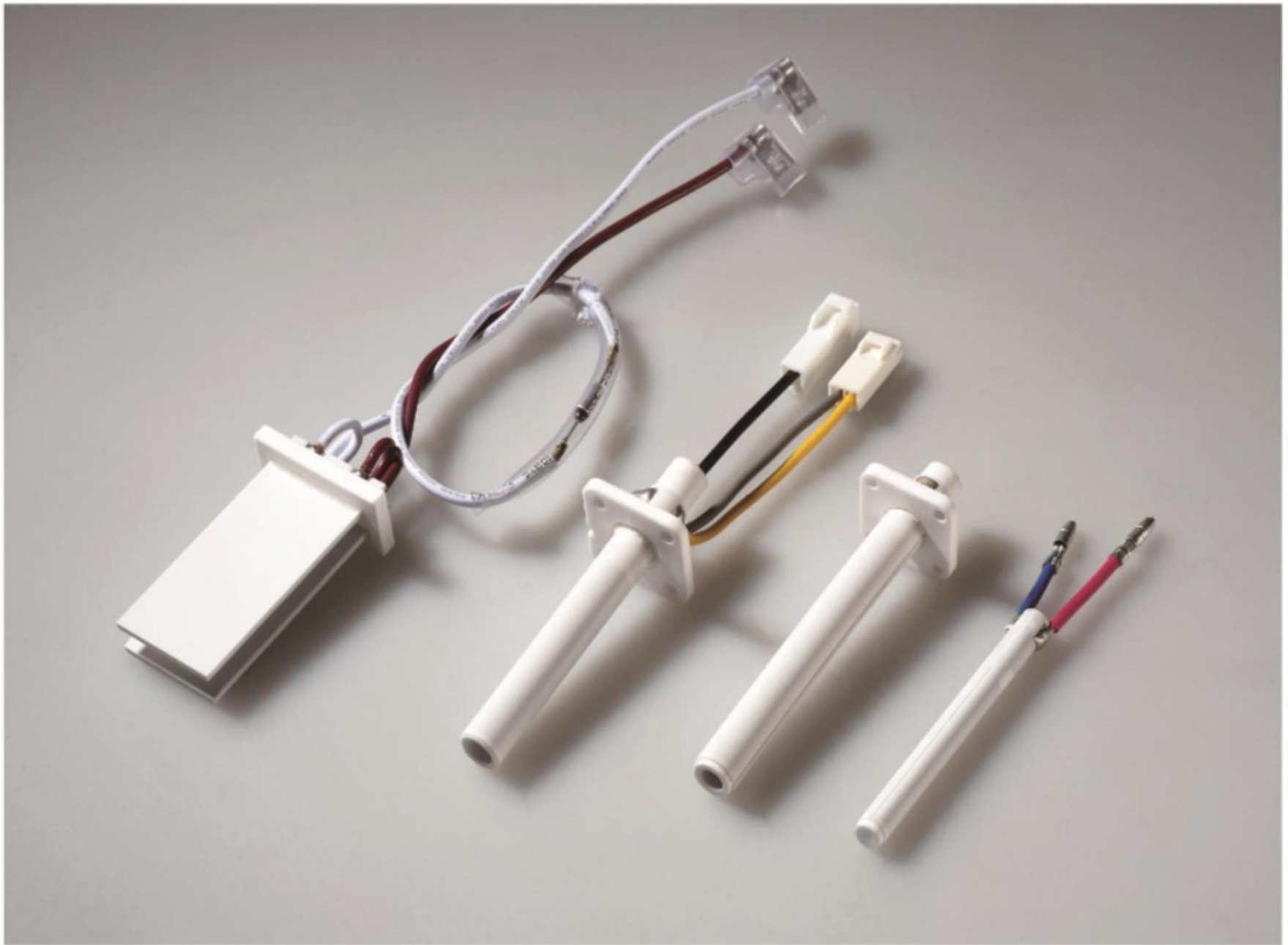
★ Customization is welcome according to customers' specific requirement.



产品特点和应用领域

Heater characteristic and application

● 智能马桶 / 水加热用陶瓷发热件 *Smart Bidet/Instant water heater element*



可适用于即热式水加热：如智能马桶盖、即热式热水器、咖啡机、泡茶机、饮水机等。陶瓷加热件体积小、功率大，能瞬间产生适当温度的水，安全、耐腐蚀。

Mini size but big power, heating water instantly.

Safe and corrosion-resistance.

Instant water heating such as smart bidet; coffee/tea machine and water dispenser ect.

★产品可根据客户需要定制

★ Customization is welcome according to customers' specific requirement.

● 电烙铁 / 焊台用陶瓷发热芯

Ceramic Heater for Soldering Iron/Station

可适用于电烙铁、高精度焊台等电子工具。
Widely used in soldering iron and station ect.
electronic tools.

★产品可根据客户要求定制

★ Customization is welcome according to
customers' specific requirement.



● 氧化铝陶瓷发热片 / 金属化陶瓷

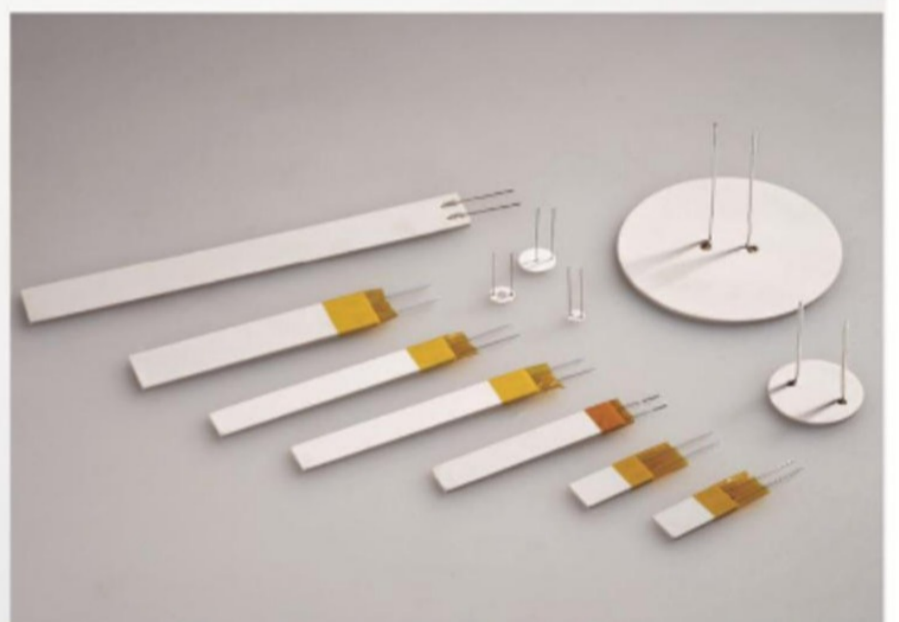
Aluminum Ceramic Heating Plate/Metalized Ceramic

可适用于小家电：如热水壶、直发器、卷发器等。

Applicable to small home appliances such as
kettles, hair straighteners, curlers, hair dryer,
etc.

★产品可根据客户要求定制

★ Customization is welcome according to
customers' specific requirement.



发热芯使用注意事项

Handling and notice of using ceramic heater

- 1、请勿使发热芯受到机械撞击造成产品碎裂损坏。
- 2、请在额定电压下使用，超过额定电压范围，可能会引起发热芯损坏。
- 3、发热芯应在控温条件下使用，发热芯的表面温度应不超过 850℃，使用温度的高低将决定其使用寿命。
- 4、请勿在快速加热，快速冷却，不均匀受热的环境下使用发热芯，以免线路破损（断路），裂纹现象的出现。
- 5、请勿过分拉伸引线和焊接区域。如果拉力过大，焊接区域将会脱落。
- 6、在安装发热芯时请先切断电源、切勿将发热芯的引线碰撞或相连，避免发热芯快速升温以及短路导致起火事件。
- 7、发热体用于水或者液体加热时，严禁出现干烧后突然加水；在容器内的发热体发热区域必须全部浸没在水中，水位超出发热区域 $\geq 10\text{mm}$ 以上，否则会引起发热体断裂而损坏。
- 8、请遵循相关电学知识和说明。

1. Don't give the ceramic heater impact like falling down to the ground or strike it by hammer forcefully.

2. Using ceramic heater at rating voltage.

Over rated voltage may cause the damage of ceramic heater.

3. Temperature controller should be used when the working temperature over 850℃ . since the working temperature is closely related to its working life.

4. Don't use ceramic heater on following conditions: quick heat up, quick cool down and uneven heat distribution. Because on the above conditions open circuit. cracking problems may happen. Please be careful of heat shock besides other situations that are not mentioned here such as incompletely contact with metal part that will also cause uneven heat distribution.

5 Don't put excess strength to Ni-wire and brazing area. If Ni wires were bent many times, power concentration points will become brittle. Crack even breakage may happen. If pulled Ni wires with excess power, brazing area will be peeled off.

6. For the sake of each customer's responsibility, please make some countermeasure such as turning off the power in case of extreme rapid rising the temperature.

7. When ceramic heater element were used for heating water or any other liquid , pouring water/liquid suddenly after power-on is definitely prohibited.

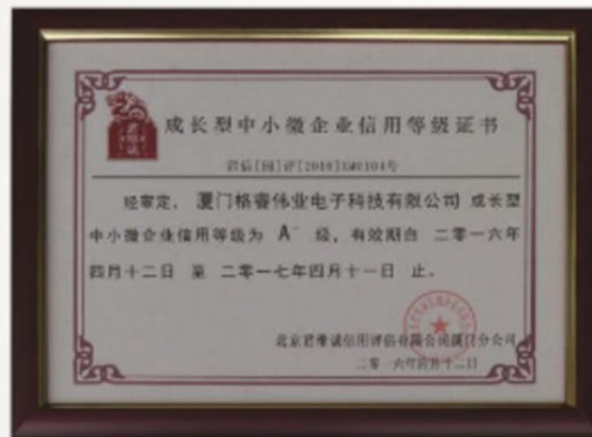
Moreover the whole heating zone should immersed into water when used in container.

Water level exceeded 10mm of heating zone may cause defective of heater.

8. Please comply with regulations and specifications relating electricity.

荣誉证书

Certificate of honor



厦门格睿伟业电子科技有限公司

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