



Small Ceramic Heater

Aluminum small Ceramic Heater element is mainly made of Al₂O₃, which is manufactured by sintering in high temperature above 1600 deg C with heating layer printed in the ceramic sheet. The ceramic heaters generates heat when an electric current is applied to .It is capable of raising its temperature to 800 deg C within 30 seconds. The metal ceramic heating core has many merit such as excellent resistance, noiselessness, usefulness for every required heat-setting. Mean while this kind of MCH Ceramic Heater contains no harmful materials such as lead, hg, chromium ect.

Model:E7070TA

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Material Properties of 95% Al₂O₃ Alumina ceramic

Item	Inspection Condition	Unit	Standard
Color			White
Density		g/cm ³	3.7
Water absorption		%	0
Average grain size		μm	3~5
Hardness	Load 4.9N 4.9N	GPa	≥15
Flexural strength		MPa	≥274
Linear expansion coefficient	20~500℃	1×10 ⁻⁶ mm/℃	6.5~7.5
	20~800℃		6.5~8.0
Thermal conductivity	20℃	W/(m·K)	≥20.9
Specific heat		kJ/(kg·K)	≥0.8
Insulation strength		KV/mm	≥12

Volume resistivity	20°C	Ohm.cm	≥1014
	300°C		≥1011
	500°C		≥109
Permittivity	1MHz		9~10
Dielectric loss tangent	1MHz		≤3×10 ⁻⁴
Surface roughness		μm	0.3~0.8

Features of Ceramic Heating Core

Rapid heating, non-hot spot temperature distribution

Excellent insulation (the leakage current is < 0.5 mA under voltage 4500V/1S testing with no breakdown)

full compliance with EU RoHS (no lead, cadmium, mercury, hexavalent chromium, PCBS, and other harmful substances).

Parameter of Aluminum Heater Element

Configuration and Dimension							
Shape	Dimension	Tolerance		Tolerance		Tolerance	Resistance Tolerance
Plate	Length (mm)		Width(mm)		Thickness(mm)		
	10~120	① ≤20+/-0.3 ② ≥20+/-1	2~60	① ≤20+/-0.3 ② ≥20+/-1	0.55~2.0	① ≤1+/-0.1 ② ≥1+/-0.15	+/-10%
	length		Diameter				
Rod	8~121	① ≥30mm:+/-0.5 ② 30~100mm:+/-1.0	2.5~8	① ≥5mm:+/-0.1 ② 5~9mm:+/-0.2			+/-10%
Tube	8~121	③ ≤100mm~:+/-1.5	2.5~20	③ ≤9mm~:+/-0.3			+/-10%

Application

Electronic cigarette, vaporizers, coffee machine, Intelligent toilet, instant electric kettle, instant water heater, intelligent basin faucet; hair straightener, hair curler, car exhaust oxide sensor, heating for industry device, ultrasonic heating element, mold heater, medical equipment heater ,air heater, small household appliances, etc.....

Packing and Delivery

The suitable packing should be taken to avoid the breakage and contamination during the shipment.

If the products are not sufficient to full of carton,buffer material can be used to ensure the shipping safety.



Our Advantage

1. Aluminum Ceramic Heating Element Factory
2. On-line Employees more than 150~200
3. Customization are welcome
4. Heater Month Capacity: 550,000 piece
5. Quick Delivery time for already models: 1-3 days
6. Free Heater elements Samples are available