



Ceramic Element Heater For Milwaukee Soldering Iron

GREENWAY Ceramic Element Heater For Milwaukee Soldering Iron have characteristic design & practical performance & competitive price, for more information on the Ceramic Element Heater For Milwaukee Soldering Iron, please feel free to contact us.

Model:E6038FR

Ceramic Element Heater For Milwaukee Soldering Iron

Ceramic Element Heater For Milwaukee Soldering Iron were developed based on ceramic lamination technologies, which are mainly used for automotive and various industrial applications such as soldering iron, kerosene & gas equipment, pellet burner and water heating.



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℃	1×10-6mm/℃	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℃	Ohm.cm	≥1014
	300℃		≥1011
	500℃		≥109
Permittivity	1MHz		9~10
Dielectric loss tangent	1MHz		≤3×10-4
Surface roughness		μm	0.3~0.8

Features of Ceramic Element Heater For Milwaukee Soldering Iron

Ceramic Element Heater For Milwaukee Soldering Iron is a new type of high efficient heating elements, which can save more than 20%-30% power effect compare to PTC ceramic heaters. Our alumina ceramic heaters have many excellent features:

- 1.High power density, excellent thermal efficiency
- 2.Rapid heating, non-hot spot temperature distribution
- 3.High temperature, small size, light weight
- 4.Excellent insulation (the leakage current is < 0.5 mA under voltage 4500V/1S testing with no breakdown)
- 5.High reliability, stable resistance, no electric noise
- 6.Good chemical resistance full compliance with EU RoHS (no lead, cadmium, mercury, hexavalent chromium, PCBS, and other harmful substances)

No charge on surface and safe to touch.

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:+/-0.5 ②30~100mm:+/-1.0	2.5~8	①≥5mm:+/-0.1 ②5~9mm:+/-0.2			+/-10%
Tube	8~121	③≤100mm~:+/-1.5	2.5~20	③≤9mm~:+/-0.3			+/-10%

Application

The aluminum ceramic heaters are widely used in all kinds of applications nowadays, such as: intelligent bidet seat, electric water heater, medical machine, dryer, electric heating splint, electric iron, vacuum flask, electric cooker, electric bonder, capper, UTR cylinder condensation-proofer, IR physiotherapy equipment, intravenous injection heating, quick food heating, mini thermostatic bath for special crystal parts, automatic exhaust oxidation sensors, industrial equipment heater, and small heating appliance, 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.

