

Carbon infrared heating tube

Various sizes can be customized



Carbon Fiber Heater Quartz Glass Tube Far Infrared Heating Lamp Heating Element

Carbon fiber heating tube, also known as carbon fiber electric heating tube, infrared heating tube, infrared electric heating tube, carbon fiber infrared electric heating tube, carbon fiber infrared heating tube and so on. It is to place a carbon fiber filament in the quartz tube, vacuum seal in the tube, and put a voltage on the carbon fiber filament to make the carbon fiber filament generate heat to generate heat.



Description

☀ The high electricity-heat transformation rate

The carbon fiber heater is made of pure black material. In the process of electrothermal conversion, the light produced is large and mostly 2.5-13um, with little visible light and small luminous flux. The electrothermal conversion rate is more than 97%.

☀ Rapid temperature rise and rapid heat dissipation

The high thermal conductivity of carbon fiber in the fiber direction makes it have good thermal conductivity. The thermal conductivity is as high as 1.6 times that of pure copper and 2.7 times that of aluminum. Therefore, as a heating body, it must show the excellent characteristics of rapid temperature rise and rapid heat dissipation.

☀ It has far infrared radiation characteristics

The energy emission mode of carbon fiber heat generator is mainly far-infrared radiation, in which the far-infrared radiation efficiency reaches more than 70%. After the carbon fiber heater is powered on, it will radiate infrared heat that can heat the material. The infrared radiation wavelength is 2.3-14um. The far infrared of this wavelength is called "light of life", accounting for more than 80% of the overall wavelength.



Proportion of heat

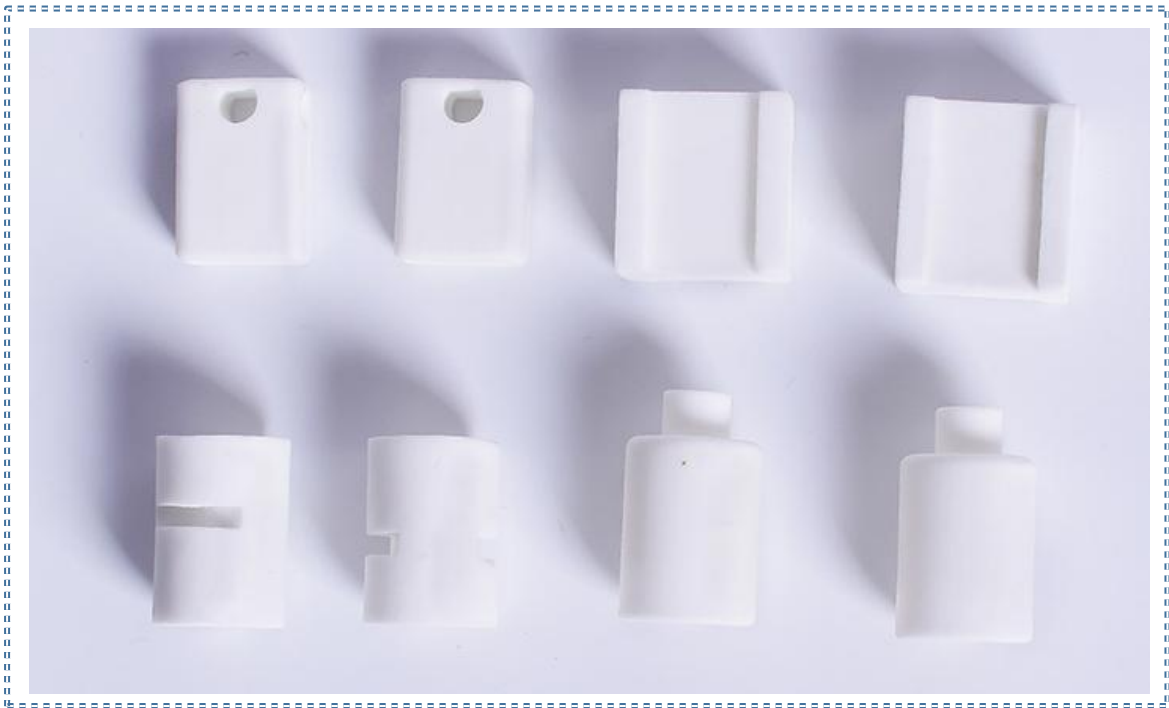
	<2 μm	2-4μm	>4μm	Typical emitter
600℃	2.2%	37.2%	60.6%	Ceramic/Metal Sheathed
900℃	13.0%	46.4%	40.6%	Standard Medium Wave
1200℃	26.1%	46.9%	27.0%	Carbon
1600℃	43.2%	40.1%	16.7%	Fast Response Medium Wave
2200℃	62.5%	28.7%	8.8%	Short Wave
2700℃	73.3%	21.0%	5.7%	Halogen/NIR
3000℃	77.9%	17.6%	4.5%	High Powered Halogen/NIR

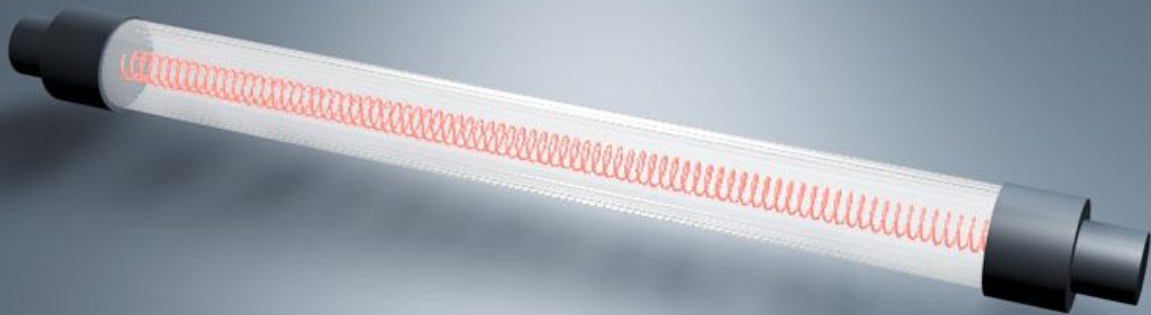
* Heat distribution of infrared emitter at different temperatures and wavelengths

Technical parameters

Voltage (V)	24, 36, 72, 100, 110, 115, 120, 220, 230, 235, 240, 380		
Power (W)	70 ~ 5000	Power-error	+5 ~ -10
Length (mm)	100 ~ 3000	Length-error	±2
Φ Diameter (mm)	26.1%	Diameter-error	±0.5
electricity-heat conversion (%)	> 97%	Working temperature(°C)	≤800
Heating temperature(°C)	≤900	Average Lifetime(h)	6000

* The above data is for reference only.





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