



# Silicon Nitride

Ceramic Gas/Fuel Hot Surface Igniter

# Introduction To Hot Surface Ignition

#### Ignition Is Safe, Reliable, No Electromagnetic Interference, Quiet And Comfortable

#### • No Gas Leakage Or Deflagration

After the igniter is energized to reach the ignitable temperature, the combustible mixture is introduced. In terms of timing, gas leakage and deflagration in conventional ignition methods are completely avoided.

#### • Fully Adaptable

The high–power hot–surface ignition method perfectly adapts to changes in gas type, composition, air–fuel ratio, temperature, humidity, and oil pollution.

#### The System Runs More Reliably, And Has No Interference With Other Electrical Appliances.

No noise, no deflagration. There is no need to lower your head to confirm whether the ignition is successful or not.





#### Features of Silicon Nitride Igniter

Silicon Nitride Ceramic Igniter Is The Latest And Most Advanced Application Of Hot Surface Ignition Technology.

- It completely avoids the defects of low capability with high temperature and short life of the metal heating wire. It avoids the shortcomings that the silicon carbide heating element is loose, brittle, and needs to protect against water.
- Silicon nitride has outstanding advantages such as high working temperature, fast heating speed, compactness and solidity, and long working life.
- MEIGONG Silicon Nitride Igniter has core intellectual property rights of silicon nitride ceramic heating elements and a number of invention patents.
- Our company has the widest product coverage in the field of hot surface ignition technology. The working
  voltage of the product extends from 4V to 240V. The power is from 10W to 300W. It can be applied to the
  ignition and heating of all gas and fuel oil equipment. INNOVACERA has the world's highest temperature
  and smallest ceramic heating technology



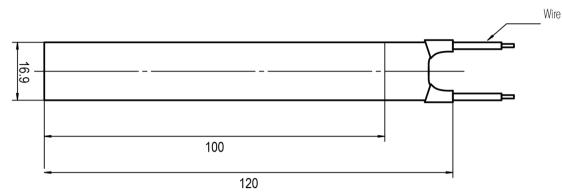
#### Classification of Igniters By Power

Equipment Type	Type of Igniter	Operating Voltage	Nominal Power of Igniter
Small Combustion Equipment: Household Stove, Fireplaces, Braziers, Wall–Mounted Water Heaters, Car Glow Plugs, Etc.	CQ、MM Series	6~24V	50~95W
Medium-Sized Combustion Equipment: Commercial Stove, Mobile Heaters, Automobiles, Etc	TK Series	18~230V	20~400W
Large-Scale Combustion Equipment: Gas Air Conditioners, Clothes Dryers, Boilers, Volumetric Water Heaters, Etc.	DG Series	220~230V	400~1000W



## Silicon Nitride Ceramic Heater (DGY-25A Series)

Liquid heating silicon nitride ceramic electric heating element has the characteristics of high power, so it is mainly used for heating liquid and water equipment, solar water heaters, instant water heaters, etc.



Existing Voltage Specifications	110V、220V、240V
Cold Resistance Range	$4{-}48\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C within 17 seconds
Temperature Range	≥1180℃
Nominal Power	1000~3000W

Heating Element Thickness: H (mm)	Current Specifications of Flange Mount: M×L (mm)
3.9	17×70 17×85 17×120 17×130 30×75 30×100

- Wire: 200°C, 250°C, 450°C, 550°C wires are available, and the common specifications are 16, 18, 20AWG.
- Installation: Commonly used materials are equipped with silicone sealing ring. We can customize special shapes and materials according to customer requirements.
- Mounting flange: Commonly used material is 304 stainless steel. It can be customized according to customer requirements.

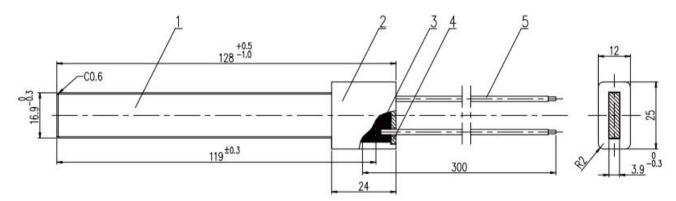






## Silicon Nitride Ceramic Heater (DGC-6A Series)

It is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium-sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.



Existing Voltage Specifications	110V、120V、220V、240V
Cold Resistance Range	$7-13\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 15 Seconds
Temperature Range	≥1180℃
Nominal Power	400~650W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9	K05/15×70 (110V 280W) K07/17×85 (220V 400W) K08/17×85 (120V 350W) K04/17×98 (220V 400W)
	K02/17×128 (220V 600W) K01/17×138 (220V 650W) K09/30×98 (110V 350W) K06/30×115 (110V 450W)

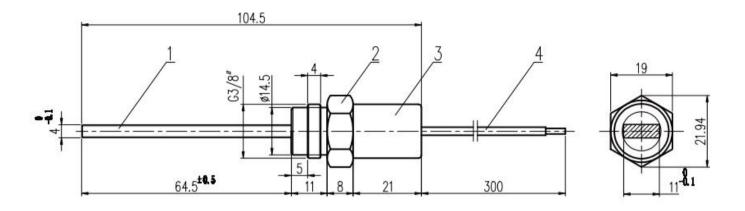
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the square 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





## Silicon Nitride Ceramic Heater (DGF-4A Series)

It is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium–sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.



Existing Voltage Specifications	24V、110V、120V、220V、240V
Cold Resistance Range	$4{-}13\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 15 Seconds
Temperature Range	≥1180℃
Nominal Power	300~400W

Heating Element Thickness: H (mm)	Current Specifications of Flange Mount: M×L (mm)
3.9	11×75 11×105 11×130

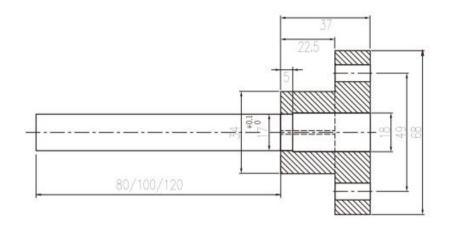
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: Commonly used material 304 stainless steel, can be customized according to customer requirements.

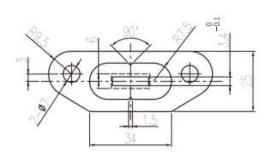




## Silicon Nitride Ceramic Heater (DGC-6B Series)

It is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium-sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.





Existing Voltage Specifications	110V、120V、220V、230V
Cold Resistance Range	$7-13\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 15 Seconds
Temperature Range	≥1180°C
Nominal Power	400~650W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9	17×110 17×140 17×150

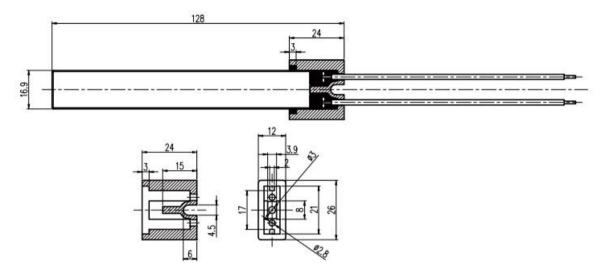
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the square 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





## Silicon Nitride Ceramic Heater (DGC-6C Series)

It is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium–sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.



Existing Voltage Specifications	110V、120V、220V、230V
Cold Resistance Range	$7-13\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 15 Seconds
Temperature Range	≥1180℃
Nominal Power	400~700W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9	16.9×98 16.9×128 16.9×138

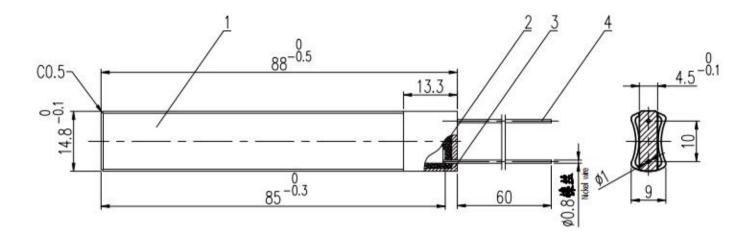
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





### Silicon Nitride Ceramic Heater (DGC-4D Series)

It is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium-sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.



Existing Voltage Specifications	220V、230V
Cold Resistance Range	22–25 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1050°C Within 15 Seconds
Temperature Range	≥1180℃
Nominal Power	250~350W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9	15×88

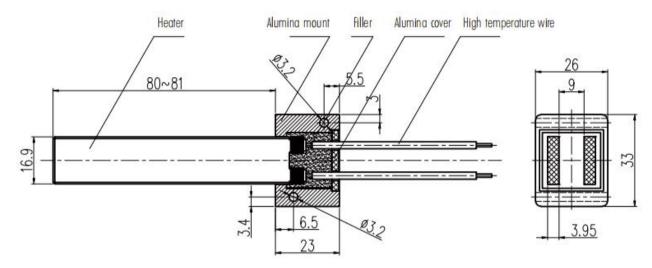
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the square 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





## Silicon Nitride Ceramic Heater (DGC-8E Series)

It is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium-sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.



Existing Voltage Specifications	220V
Cold Resistance Range	$7-13\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 15 Seconds
Temperature Range	≥1180℃
Nominal Power	800~1500W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9×2	16.9×128 16.9×128 16.9×138

- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Carbide Ceramic Igniter (MM-24 Series)

Silicon carbide ceramic igniter is used for various boilers and gas silicon nitride igniters. It has the characteristics of high power. Therefore, it is mainly used for medium-sized combustion equipment, commercial stoves, biological boilers, heating stoves, circulating thermal baking ignition heating boxes, etc.

Existing Voltage Specifications	24V、110V
Cold Resistance Range	$4-9\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1050°C Within 15 Seconds
Temperature Range	≥1180°C
Nominal Power	280~350W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

Heating Element Thickness or Diameter: H/D(mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9 (Cylindrical Diameter: 10)	32×30 68.5×40 17×25 33.5×94

- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the square 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.



MM24-120A



MM24-120B



MM24-120C

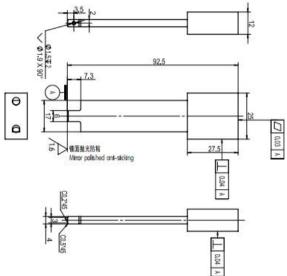


MM24-120D



#### Silicon Itride Ceramic Photovoltaic Welding Knife (DGC– 4F1 Series)

It is used for welding all kinds of solar photovoltaic panels with superior performance, such as acid and alkali resistance, corrosion resistance, uniform tin point, precise depth, convenient replacement, and long service life.



Existing Voltage Specifications	24V、48V、60V
Cold Resistance Range	$1-3\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	450℃ Within 15 Seconds
Temperature Range	≥500°C
Nominal Power	350W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9	17×92.5

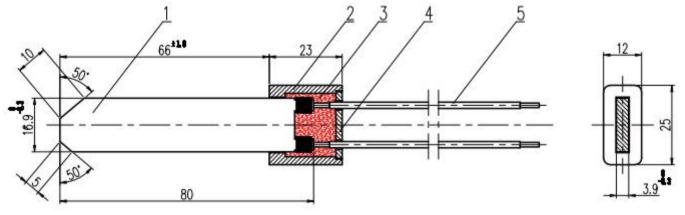
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the square 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Itride Ceramic Photovoltaic Welding Knife (DGC– 4F2 Series)

It is used for welding all kinds of solar photovoltaic panels with superior performance, such as acid and alkali resistance, corrosion resistance, uniform tin point, precise depth, convenient replacement, and long service life.



Existing Voltage Specifications	24V、48V、60V
Cold Resistance Range	$1-3\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	450℃ Within 15 Seconds
Temperature Range	≥500°C
Nominal Power	350W

Heating Element Thickness: H (mm)	Current Specifications of Ceramic Mount: M×L (mm)
3.9	16.9×80

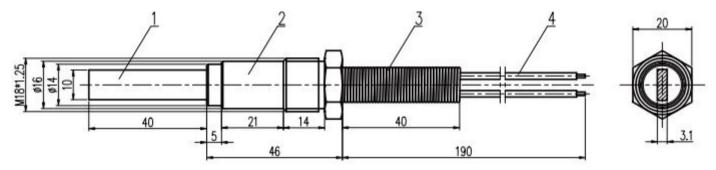
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG mica fiberglass wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D18A24V33 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	11V、18V、24V
Cold Resistance Range	0.2–0.3 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180℃
Nominal Power	50~230W

Heating Element Thickness: H (mm)	Current Specifications of Flange Mount: M×L (mm)
3	10×85

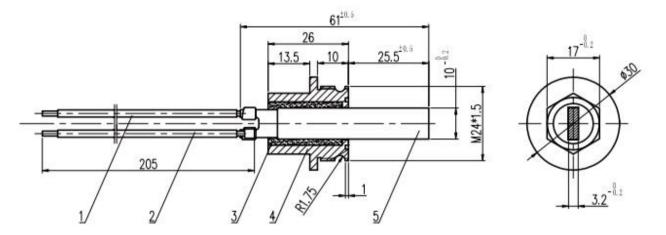
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ-D24b24V12 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	11V、18V、24V
Cold Resistance Range	$0.2-0.3\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180°C
Nominal Power	180~250W

Heating Element Thickness: H (mm)	Current Specifications of Flange Mount: M×L (mm)
3	10×56

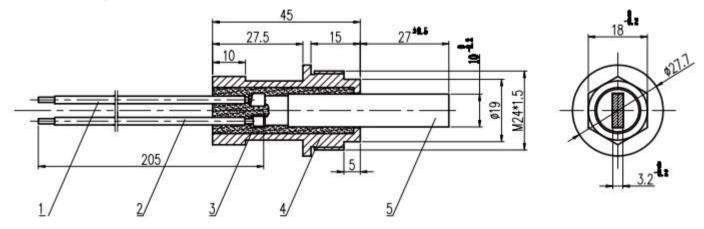
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ-D24C24V23 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	11V、18V、24V
Cold Resistance Range	0.2–0.3 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180°C
Nominal Power	50~100W

Heating Element Thickness: H (mm)	Current Specifications of Flange Mount: M×L (mm)
3	10×75

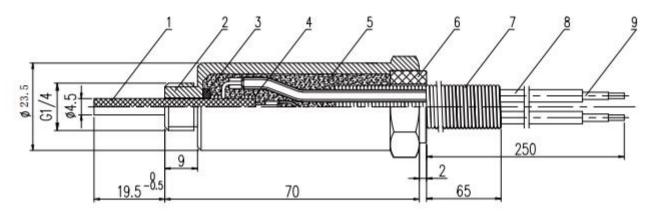
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D23C24V71 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	8V、12V、18V、24V
Cold Resistance Range	0.2–4.5 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180℃
Nominal Power	50~100W

Heating Element Diameter: D (mm)	Current Specifications of Flange Mount: M×L (mm)
4.5	74

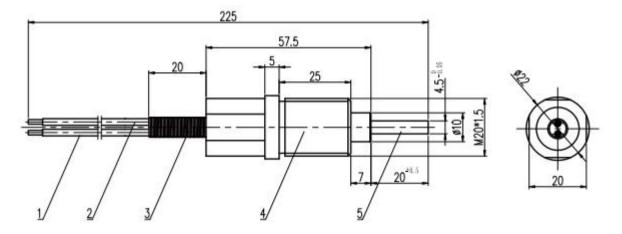
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D20B51 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	8V、12V、18V、24V
Cold Resistance Range	0.2–4.5 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180°C
Nominal Power	50~100W

Heating Element Diameter: D (mm)	Current Specifications of Flange Mount: M×L (mm)
4.5	65

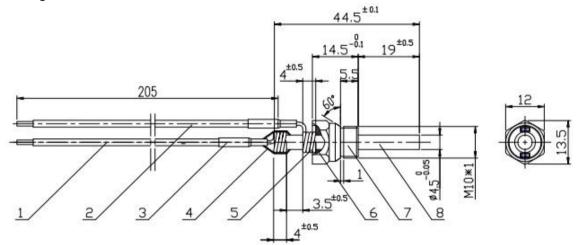
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D10D11 Series)

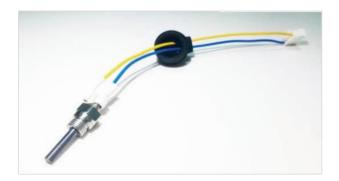
Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	8V、12V、18V、24V
Cold Resistance Range	0.2–4.5 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180℃
Nominal Power	50~100W

Heating Element Diameter: D (mm)	Current Specifications of Flange Mount: M×L (mm)
4.5	45

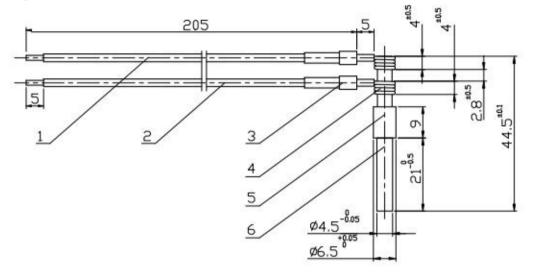
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D6E24V12 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	8V、12V、18V、24V
Cold Resistance Range	$0.2-4.5\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180℃
Nominal Power	50~100W

Heating Element Diameter: D (mm)	Current Specifications of Flange Mount: M×L (mm)
4.2	45

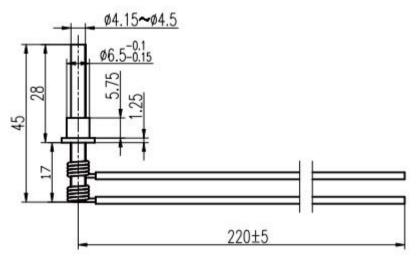
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D6F18V11 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	8V、12V、18V、24V
Cold Resistance Range	0.2–4.5 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180℃
Nominal Power	50~100W

Heating Element Diameter: D (mm)	Current Specifications of Flange Mount: M×L (mm)
4.2	45

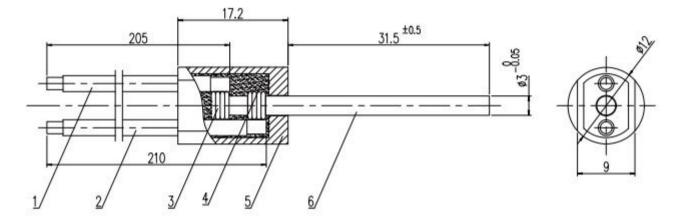
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ–D12G24V13 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	24V
Cold Resistance Range	0.2–4.5 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 7 Seconds
Temperature Range	≥1180°C
Nominal Power	50W

Heating Element Diameter: D (mm)	Current Specifications of Ceramic Mount: L (mm)
3.0/4.2/4.5	48/52/55

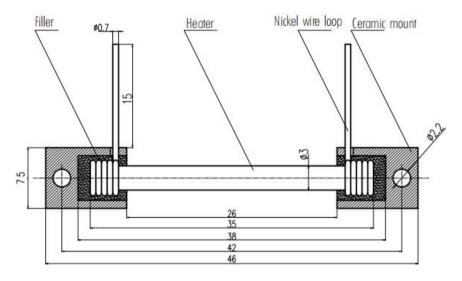
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





#### Silicon Nitride Ceramic Glow Plug, Igniter (CQ-D75H24V23 Series)

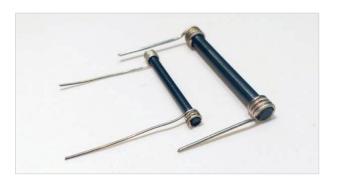
Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



Existing Voltage Specifications	8V、12V、16V、18V、24V
Cold Resistance Range	$0.2-4.5\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1180°C Within 10 Seconds
Temperature Range	≥1180℃
Nominal Power	50~80W

Heating Element Diameter: D (mm)	Current Specifications of Ceramic Mount: L (mm)
4.5/3.0	46/40

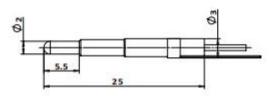
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG Teflon high temperature wire.
- In addition to the mounting seats commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel, can be customized according to customer requirements.





# Silicon Nitride Ceramic Glow Plug, Igniter (TK3–18 Series)

Silicon nitride ceramic glow plugs, heating elements, igniters, silicon nitride ceramic glow plugs "Car ceramic glow plugs" are used for diesel engines and gasoline engines to start preheating, and to ignite various high-temperature gases.



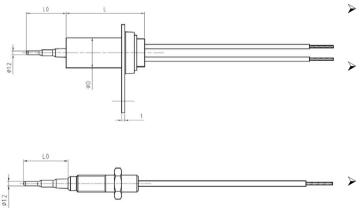


Existing Voltage Specifications	24V
Cold Resistance Range	$0.2-5.0\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1100°C Within 3 Seconds
Temperature Range	≥1100°C
Nominal Power	20W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

# TK3–18 Series Standard Assembly Method

Single Wire, Double Wire



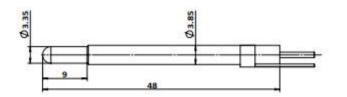
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the pag

Heating Element Diameter: L0 (mm)	Current Specifications of Ceramic Mount: $\Phi D \times L$ (mm)
12.8	Ф6.3х44 Ф6.3х50 Ф9.5х25 Ф10х30 Ф10х45 Ф10х158



# Silicon Nitride Ceramic Glow Plug, Igniter (TK4–24 Series)

It has the characteristics of moderate power, long time energization, and high mechanical strength. Therefore, it is mainly used in gas appliances such as commercial stoves, and has outstanding advantages such as water resistance, moisture resistance, oil resistance, and strong environmental temperature adaptability

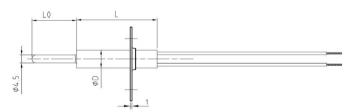




Existing Voltage Specifications	5V、7V、12V、18V、21V、24V
Cold Resistance Range	0.15–4.5 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1000°C Within 7 Seconds
Temperature Range	≥1050°C
Nominal Power	42W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

# TK4–24 Series Standard Assembly Method



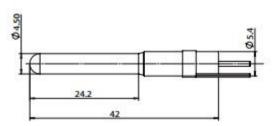
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the page of accessories.

Extension Length of Heating Element: L0 (mm)	Current Specifications of Ceramic Mount: ФD×L (mm)
37	Ф10×30 Ф10×45 Ф10×158



# Silicon Nitride Ceramic Glow Plug, Igniter (TK5–18B Series)

It has the characteristics of high power and high mechanical strength. Therefore, it is mainly used for largescale combustion equipment with limited voltage.



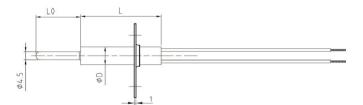


Existing Voltage Specifications	8V、12V、18V、24V
Cold Resistance Range	$0.1 - 1.2\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1050°C Within 25 Seconds
Temperature Range	≥1050°C
Nominal Power	80W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

#### TK5–18B Series Standard Assembly Method

**Double Wire** 



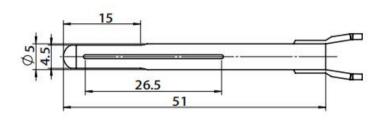
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the page of accessories.

Extension Length of Heating Element: L0 (mm)	Current Specifications of Ceramic Mount: ФD×L (mm)
25	Ф10×30 Ф10×45 Ф10×158



## Silicon Nitride Ceramic Glow Plug, Igniter (TK5–48A Series)

It has the characteristics of low power and compact structure. Therefore, it is mainly used for small and medium–sized gas equipment such as household gas air conditioners.

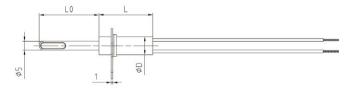




Existing Voltage Specifications	48V、110V、120V
Cold Resistance Range	$4-40\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1100°C Within 17 Seconds
Temperature Range	≥1100℃
Nominal Power	90W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

# TK5–48A Series Standard Assembly Method



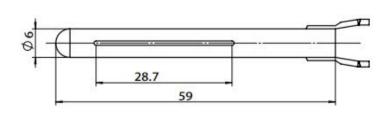
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the page of accessories.

Extension Length of Heating Element: L0 (mm)	Current Specifications of Ceramic Mount: ФD×L (mm)
34	Ф10×30 Ф10×45 Ф10×158



## Silicon Nitride Ceramic Glow Plug, Igniter (TK6–80A Series)

It has the characteristics of low power and compact structure. Therefore, it is mainly used for small and medium–sized gas equipment such as household gas air conditioners.

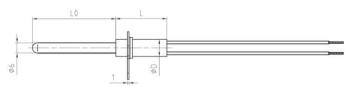




Existing Voltage Specifications	80V、110V、115V、120V
Cold Resistance Range	5–16 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1080°C Within 17 Seconds
Temperature Range	≥1080°C
Nominal Power	160W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

#### TK6–80A Series Standard Assembly Method



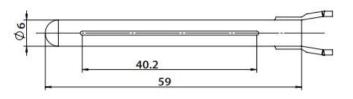
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the page of accessories.

Extension Length of Heating Element: L0 (mm)	Current Specifications of Ceramic Mount: ФD×L (mm)
50	Ф10×30 Ф10×45 Ф10×158



#### Silicon Nitride Ceramic Glow Plug, Igniter (TK6–220B Series)

With high working voltage, it can be directly used in power supply areas such as 220V.

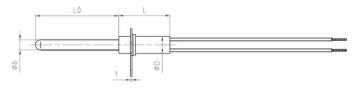




Existing Voltage Specifications	220V、240V
Cold Resistance Range	4–100Ω (The cold resistance range of different voltage products is different.)
Heating Rate	1080°C Within 17 Seconds
Temperature Range	≥1080°C
Nominal Power	170W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

# TK6–220B Series Standard Assembly Method



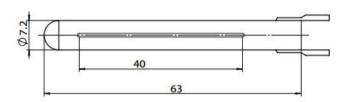
- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the page of accessories.

Extension Length of Heating Element: L0 (mm)	Current Specifications of Ceramic Mount: ФD×L (mm)
50	Ф10×30 Ф10×45 Ф10×158



## Silicon Nitride Ceramic Glow Plug, Igniter (TK7–120 Series)

It has the characteristics of high power. Therefore, it is mainly used in large-scale gas equipment, or special equipment such as gas clothes dryers that require high heating power of the igniter due to control reasons

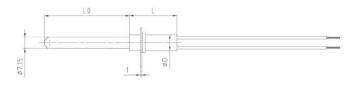




Existing Voltage Specifications	10V、120V
Cold Resistance Range	5–10 $\Omega$ (The cold resistance range of different voltage products is different.)
Heating Rate	1080°C Within 17 Seconds
Temperature Range	≥1080°C
Nominal Power	280W

**Note:** The data in the table is for reference only and cannot be used as the basis for product ordering and inspection. The actual parameter will be adjusted accordingly based on the customer's specific application.

#### TK7–120 Series Standard Assembly Method



- Wire: 200°C, 250°C, 450°C, 550°C wires are available, common specifications 16, 18, 20AWG.
- Ceramic mounting seat: 95 ceramic, a commonly used material. In addition to the cylindrical 95 ceramic mounts commonly used by our company, we can customize special shapes and materials according to customer requirements.
- Mounting flange: commonly used material 304 stainless steel. Please see the specifications in the page of accessories.

Extension Length of Heating Element: L0 (mm)	Current Specifications of Ceramic Mount: ФD×L (mm)
50	Ф10×30 Ф10×45 Ф10×158









0086 592 558 9730

sales@innovacera.com

www.innovacera.com

# XIAMEN INNOVACERA ADVANCED MATERIALS CO., LTD

Block A, 6/F, No.588 Jiahe Road, Torch High-tech Industrial District, Xiamen, China