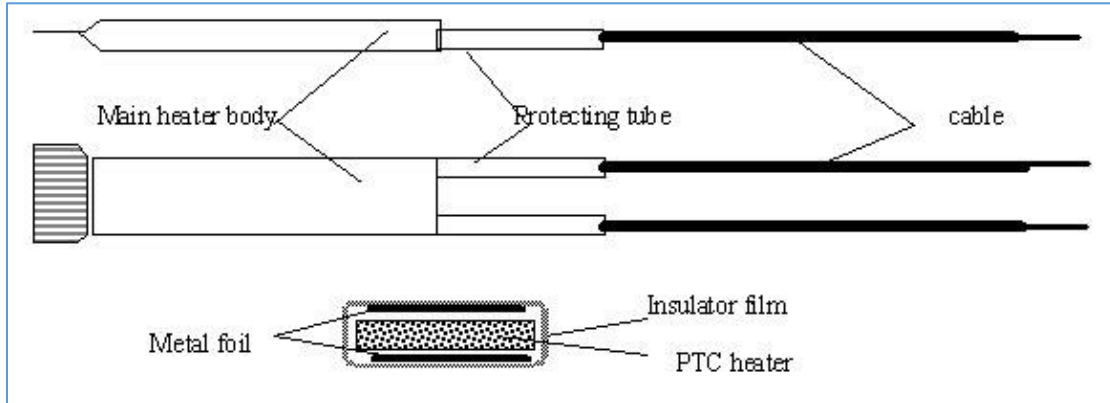




# Thermistor PTC Heater With Insulating Film

## 1. Configuration

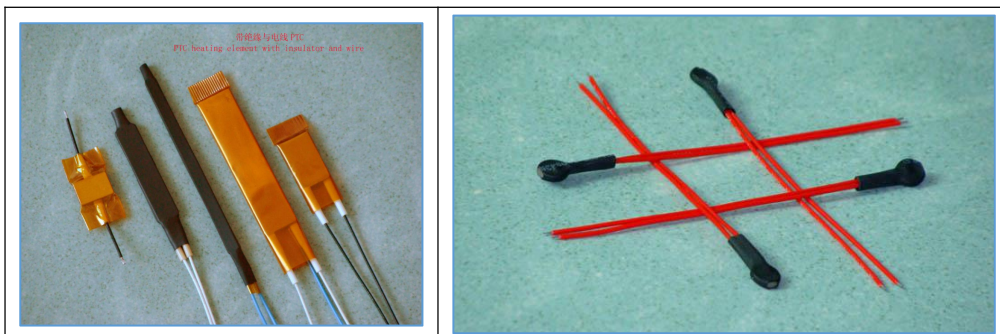


## 2. Application

Hair straightener	Hair crimper	Wax melting heater	Vapor generator
Humidifier	Water boiler	Liquid warmer	Coffee warmer
Polymer press-coating heater	Hot glue gun	Chocolate extruder	
Shoe dryer	Hand/foot warmer	Massager	Physical therapy heater.

## 3. Universal Product Specification

### 3.1 Inflexibility heater



Part number	Surface temperature /°C	Length	Width	Thickness	High pot /V	Rate voltage /V
		/mm	/mm	/mm		
YD-75CL16W11T3.5-120VK	75	16	11	3.5	3750	100~120
YD-80CL16W11T3.5-220VK	80	16	11	3.5	3750	220~240
YD-105CL15W9T3.3-220VK	105	15	9	3.3	3750	100~240
YD-180CL24W15T3.3-220VK	180	24	15	3.3	3750	100~240
YD-190CL70W13T3.3-220VK	190	70	13	3.3	3750	100~240



YD-220CL60W13T3.3-2 20VK	220	60	13	3.3	3750	100~240
YD-220CL60W13T3.3-1 20VK	220	60	13	3.3	3750	100~120
YD-220CL35W10T3.3-2 20VK	220	35	10	3.3	3750	100~240
YD-250CL30W13T3.3-2 20VK	250	30	13	3.3	3750	100~240
YD-255CL48W10T3.5-2 20VK	255	48	10	3.5	3750	100~240
YD-255CL60W15T3.5-2 20VK	255	60	15	3.5	3750	100~240
YD-260CL60W13T3.3-2 20VK	260	60	13	3.3	3750	100~240
YD-260CL60W13T3.3-1 20VK	260	60	13	3.3	3750	100~120
YD-260CL24W15T3.3-2 20VK	260	24	15	3.5	3750	100~240
YD-260CL48W15T3.3-2 20VK	260	48	15	3.5	3750	100~240
YD-260CL35W6T3.3-22 0VK	260	35	6	3.3	3750	100~240
YD-260CL45W24T3.3-2 20VK	260	45	24	3.5	3750	100~240
YD-270CL70W13T3.3-2 20VK	270	70	13	3.3	3750	100~240

Notice:

- 1) The surface temperature can be selected between 50°C~280°C, the tolerance of surface temperature is  $\pm 7^{\circ}\text{C}$  usually. Rate voltage can be 6V~600V, AC or DC.
- 2) For getting rapid temperature rising, larger heating power, several PTC pellets are used to assemble into a larger one.
- 3) There are two structures of insulators, one is twining polyimide film around the heating plate; another is coating a film pipe around the heating plate, and then thermal shrinking.

Dimension

Dimension Number.	Length	Width	Thickness	Dimension Number.	Length	Width	Thickness
	/mm	/mm	/mm		/mm	/mm	/mm
1	15	9	2.0~3.7	20	48	13	2.0~3.7
2	16	11	2.0~3.7	21	48	15	2.0~3.7
3	22	11	2.0~3.7	22	50	13	2.0~3.7
4	23	13	2.0~3.7	23	50	24	2.0~3.7



5	24	6	2.0~3.7	24	50	30	2.0~3.7
6	24	8	2.0~3.7	25	50	38	2.0~3.7
7	24	10	2.0~3.7	26	56	11	2.0~3.7
8	24	15	2.0~3.7	27	58	6	2.0~3.7
9	30	5	2.0~3.7	28	58	13	2.0~3.7
10	30	13	2.0~3.7	29	60	10	2.0~3.7
11	30	48	2.0~3.7	30	60	13	2.0~3.7
12	35	6	2.0~3.7	31	60	15	2.0~3.7
13	35	10	2.0~3.7	32	70	8	2.0~3.7
14	35	11	2.0~3.7	33	70	10	2.0~3.7
15	35	13	2.0~3.7	34	70	13	2.0~3.7
16	36	15	2.0~3.7	35	70	15	2.0~3.7
17	45	24	2.0~3.7	36	70	30	2.0~3.7
18	48	6	2.0~3.7	37	74	30	2.0~3.7
19	48	10	2.0~3.7	38	99	16	2.0~3.7

### 3.2 Flexibility heating belt



Notice:

- 1) The surface temperature can be selected between 50°C~100°C, the tolerance of surface temperature is  $\pm 5^{\circ}\text{C}$  usually. Rate voltage can be 6V~400V, AC or DC. Customer designed shapes are possible.
- 2) This product is assembled with many pieces of PTC heating elements, with a shrink tube tightened. It can be bended. It can be very long, length between 0.1 ~ 20 m , width between 6 ~ 16 mm, thickness between 2.5 ~ 3.5 mm. It is used for large area constant temperature heating.



### 3. Notice in appliance.

- 1) After switching on, the heating power is large, and then decrease, finally it become steady state. The steady state power changes with appliance conditions. Faster is the heat conduction, higher is the steady state power; higher is the surface temperature, higher is the steady state power.
- 2) The surface temperature of PTC can be controlled by itself, control circuit may be omitted in most appliances.
- 3) Our PTC products are high reliable, long aging, but if they are assembled improperly, the end product may be loose, power or temperature may be instable.
- 4) It operates in long life, and has excellent insulation on high voltage. The surface temperature increases (or decreases) about  $8^{\circ}\text{C}$ , when supplied voltage increases (or decreases) 2 time. In liquid heating appliance, when liquid was dried in the container, it's no problem.
- 5) Parallel connection is necessary for two or more PTC connection.