

PTC thermistors

The temperature range is from 60 to 180°C. PTC thermistor beads with different rated response temperatures can be connected in series.

PTC thermistors are used to monitor temperature in machines and installations. The design ensures short response time and easy installation.



Typical Applications

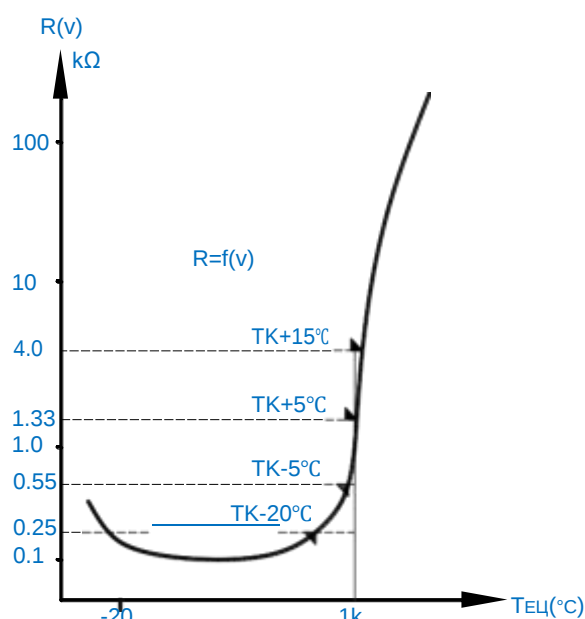
- Motor protect
- Power Device

Features

- Wide temperature range
- Response fast
- Easy installation

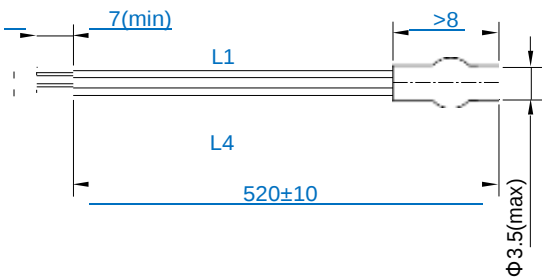
Technical Data

Item	Single	Triple	Unit
Max. Working Voltage(DC)	25	25	V
Rated Control Temperature T_K	To Customer Requirement		°C
Rated Control Temperature Tolerance ΔT_1	±5	±5	°C
Reproducibility of $TK\Delta T_2$	±0.5	±0.5	°C
Resistance value at 25°C	≤100	≤300	Ω
Resistance value at $TK-5^\circ\text{C}$	≤550	≤1600	Ω
Resistance value at $TK+5^\circ\text{C}$	≥1330	≥4000	Ω
Resistance value at $TK+15^\circ\text{C}$	≥4	≥12	kΩ
Thermal response Time T_a	≤5	≤5	s
Strength of Electrical Insulation U_{is}	AC2.5	AC2.5	kV
Max. Controlled Temperature	180	180	°C
Max. Storage Temperature	180	180	°C
Min Storage Temperature	-40	-40	°C

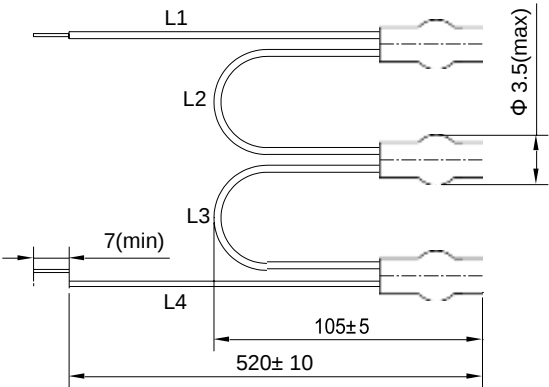


PTC Characteristic Curve

Dimensions (mm)



PTC Single Thermistor



PTC Triple Thermistor

Ordering Guide

PTC	130	D	S
Positive Sensing Components for Temperature Control	Specified T _K (See Wire color code)	E: single thermistor Z: double thermistor D: triple thermistor S: Sextuple thermistor	S: Standard wire length K: Custom designed wire length

Wire color code

T _K (°C)	60	70	80	90	100	105	110	115	120	125
1	White	White	White	Green	Red	Blue	Brown	Blue	Gray	Red
2	Gray	Brown	White	Green	Red	Gray	Brown	Green	Gray	Green

T _K (°C)	130	135	140	145	150	155	160	170	180
1	Blue	Red	White	White	Black	Blue	Blue	White	White
2	Blue	Black	Blue	Black	Black	Black	Red	Green	Red