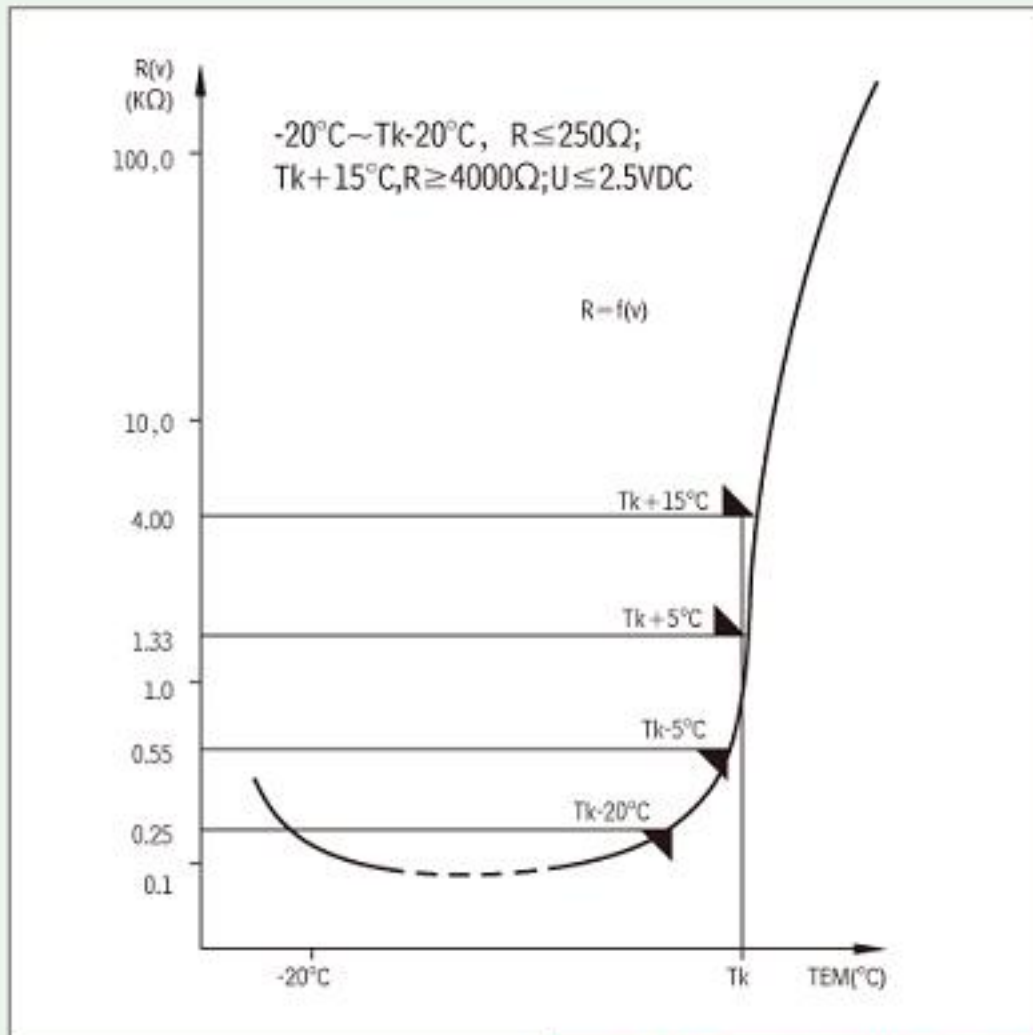
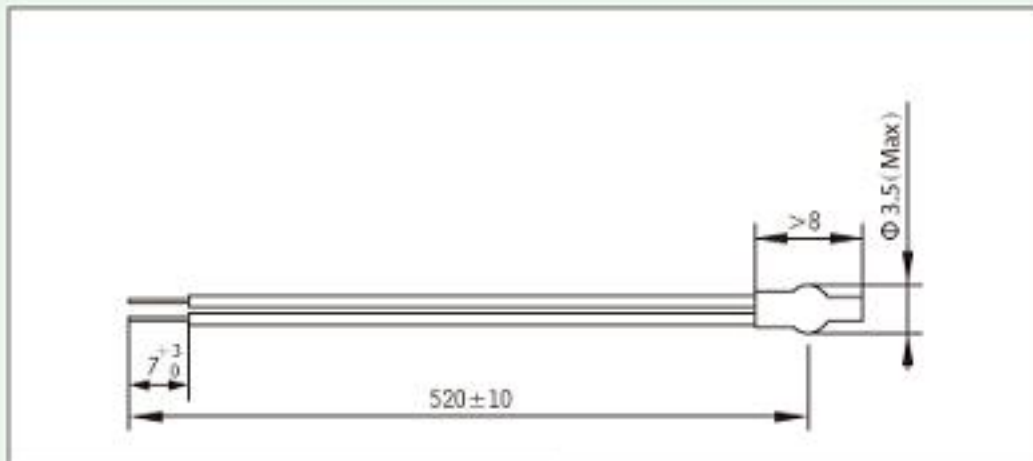


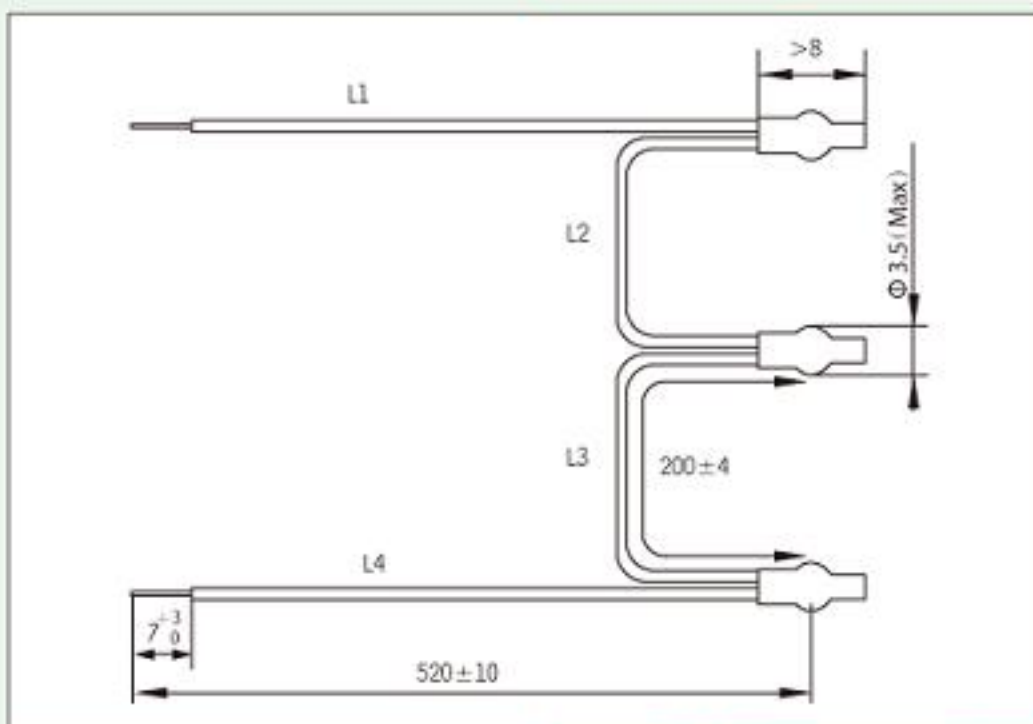
PTC-Thermistors MZ6 series



PTC characteristic curve acc. to DIN 44081/082



PTC single sensor mini



PTC triple sensor mini

Application

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

General information on PTC thermistors

PTC thermistors acc. to DIN 44081 (triple sensors acc. to DIN 44082) are used to protect electrical machines against thermal overload. Thermistors have an even steeper R/T characteristic as that defined in the DIN standard. The temperature range is from 60 to 180° C. PTC thermistor beads with different rated response temperatures can be connected in series. This permits an optimal and economic thermal protection of machines and windings with different limit temperatures.

Technical Data PTC acc. to DIN 44081/082

	single	triple	
Max. operating voltage	30	30	V
Rated response temperature Tk	60-180		° C
Tolerance of Tk	± 5	± 5	K
Reproducibility of Tk	± 0.5	± 0.5	K
Resistance R ₂₅	≤ 100	≤ 300	Ω
Resistance at a temperature of Tk -5K	≤ 550	≤ 1650	Ω
Resistance at a temperature of Tk +5K	≥ 1330	≥ 3990	Ω
Resistance at a temperature of Tk +15K	≥ 4	≥ 12	kΩ
Thermal response time T _d	≤ 5	≤ 5	s
Insulation test voltage V	AC 2.5	AC 2.5	kV
Max. operating temperature	200	200	° C
Max. storage temperature	160	160	° C
Min. storage temperature	-25	-25	° C
Weight	2	3.5	g

PTC Identification and Part Numbers

The colour of the connection leads identifies the rated response temperature. These are defined in DIN 44081/082

Rated response temperature Tk in ° C	Lead colours outer / outer	Mini single DIN 44081 Part-Number	Mini triplet DIN 44082 Part-Number
60	white/grey	MZ6-60-E	MZ6-60-D
70	white/brown	MZ6-70-E	MZ6-70-D
80	white/white	MZ6-80-E	MZ6-80-D
90	green/green	MZ6-90-E	MZ6-90-D
100	red/red	MZ6-100-E	MZ6-100-D
110	brown/brown	MZ6-110-E	MZ6-110-D
120	grey/grey	MZ6-120-E	MZ6-120-D
130	blue/blue	MZ6-130-E	MZ6-130-D
140	white/blue	MZ6-140-E	MZ6-140-D
145	white/black	MZ6-145-E	MZ6-145-D
150	black/black	MZ6-150-E	MZ6-150-D
155	blue/black	MZ6-155-E	MZ6-155-D
160	blue/red	MZ6-160-E	MZ6-160-D
170	white/green	MZ6-170-E	MZ6-170-D
180	white/red	MZ6-180-E	MZ6-180-D