

Printed Polymer Heater PTC

Description

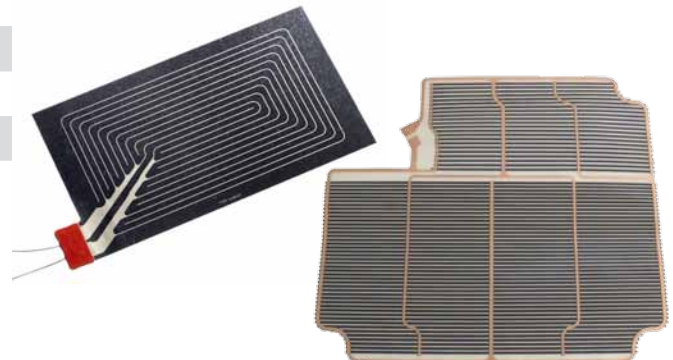
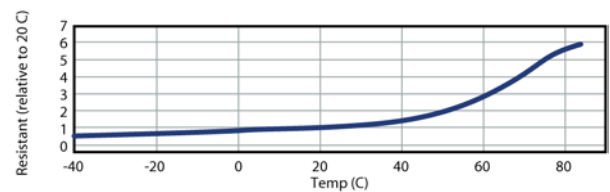
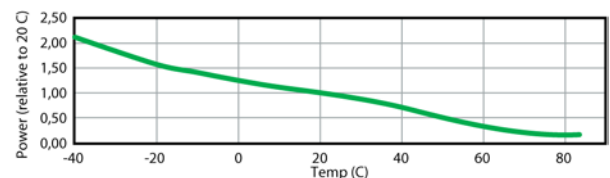
Printed Polymer heaters are based on low resistance printed silver as electrode. The heat is generated by a number of parallel connected polymer resistors with PTC characteristics (Positive Temperature Coefficient). In most cases the polymer resistor is covering the heater completely and hence gives a very even temperature distribution. The PTC effect makes the heater self limiting and therefore hot and cold spots are avoided as the power is generated where you need it. The polymer heater is also very corrosion resistant compared to metal heaters.

Technical specification

Max element temp.	70 °C (158°F)
Min. element temp.	-50°C (-58°F)
Dielectric strength at 20°C as per ASTM KV/mm	NA
Thermal conductivity at 100 °C/m °K	NA
Moisture absorption as per ASTM D-570-63. (24h immersion at 23°C)	NA
Constant of dielectricity at 25°C, 50Hz	NA
Power density	0.3 @ -40°C
Resistance tolerance	±20%
Rated voltage	230 V
Other	Possible substrates: PET



Characteristics of Calesco PTC Heating Element



Printed elements

Benefits

- Self regulation
- Robust design insensitive to small damages
- Corrosion resistant
- Cost effective at low power and high voltage

Fields of application

- Rear view & wing mirror heaters
- Lens heaters
- Floor Heating
- Waterbed heaters
- Low temperature applications
- De-icing



Lens heater

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