

POLYESTER HEATING ELEMENT

Fixed resistance or PTC (positive temperature coefficient)

Construction

A Polyester heating element starts with a high grade, low shrinkage polyester substrate in sheet or roll form. The desired circuit pattern is screen printed onto the sheet or roll and then oven dried to "set" the element.

The circuits are then die cut apart, and the terminals for lead attachment are added on. An adhesive is applied to the back of the element so that it can easily be attached to the final product.



fixed resistance

Technical specifications

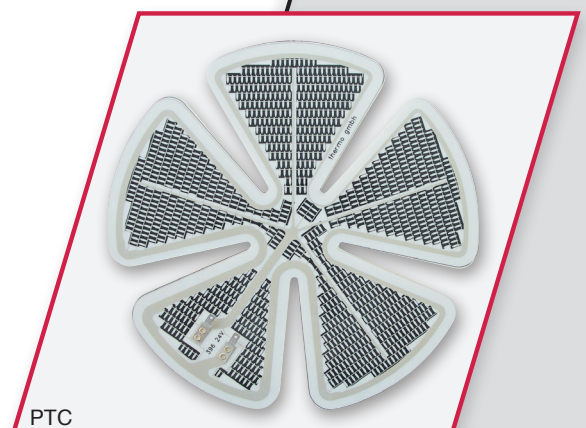
| | fixed resistance | PTC |
|--|---|----------------------|
| voltage range | up to 1000V AC/DC 1- or 3-phase | up to 48V AC/DC |
| max. watt density (controlled) | 1,5W/cm ² | 1,5W/cm ² |
| watt tolerance | ±10% | ±20% |
| min. dielectric strength | 1,5kV | 1,5kV |
| max. size | 720x1070mm (sheet) 600x10000mm (roll) | 720x1070mm |
| min. size | 10x20mm | 20x50mm |
| min. thickness | 0,3mm | |
| max. continuous operating temp. | 95°C | 80°C |
| min. ambient temperature | -50°C | |
| connection options | rivets, blade terminals, cables, thermostats, thermal fuses, sensors, safety temperature limiters | |
| sealing (connection point) | hot melt adhesive, silicone, rubber adhesive tape, polymer, insulating tape, isolating plastic spray | |
| RoHS compliant | yes | |
| protection class | IP X4 | |

Features

- form-specific customisation
- homogeneous temperature distribution
- cost-effective for mid to high volume applications
- superior heat transfer
- customer-specific design & configuration

Applications

- low temperature applications
- mirror heaters
- de-icing



PTC

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