CALESCO

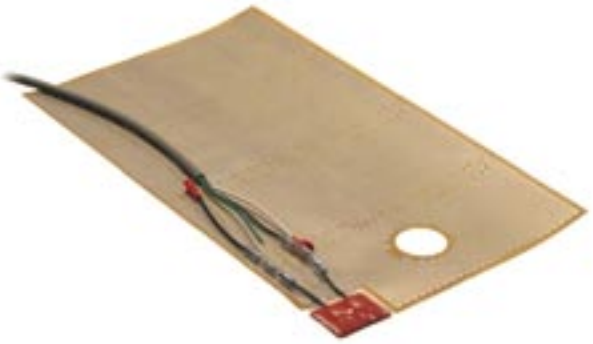
Polyester Heater

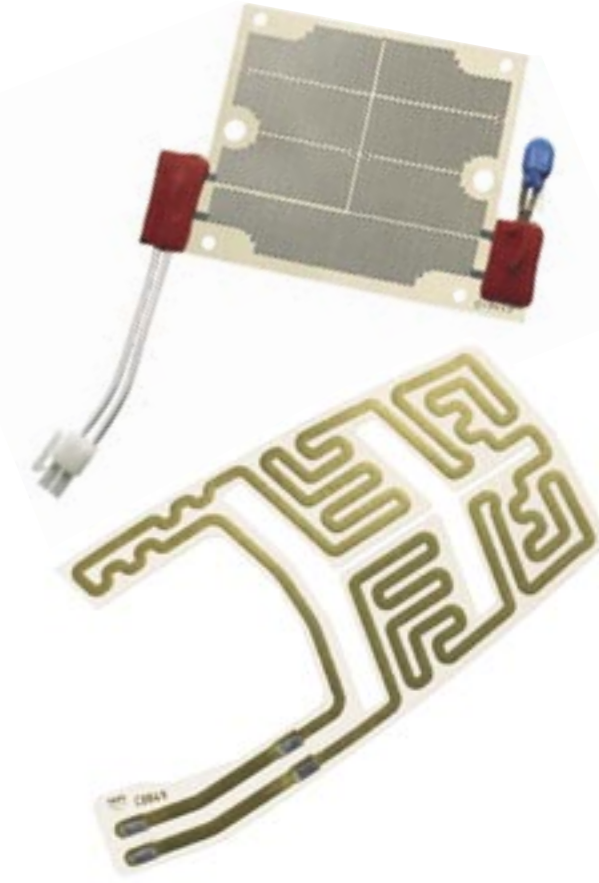
>> Polyester Heater advantages

The etched element has superior heat transfer and exceptionally uniform heat output, wich results in a faster warm-up cycle and longer life. Use this heater to cover large areas with even heat, for flat or gently curved surfaces. Etched foil polyester heaters can be designed and fabricated in many types of configurations to fit the size and shape required in your application.
Our design engineers use a custom computer-aided design program to calculate the design, given the voltage, wattage and resistance.

>> Technical Specifications

Max. element temp. °C, (°F)	130 (266)
Min. element temp. °C, (°F)	-60 (-76)
Dielectric strength at 20°C as per ASTM KV/mm	175
Thermal conductivity at 100°C W/m °K	0.16
Moisture absorption as per ASTM D-570-63. (24 h immersion at 23°C) %	0.8
Waterproof as per IEC 335-1 sect. 15-16	yes
Constant of dielectricity at 25°C, 50 Hz	3.3
Bending radius, min. mm	1
Max. element width mm	800
Power density W/cm^2	3
Resistance tolerance	As standard, ± 5% of nominal. Tolerance down to ± 2% available.
Rated voltage	Up to 690 V AC/DC single or 3-phase.
Approvals/standards	-
Other	-





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>> Heater benefits

- Low wattage
- Distributed wattage
- Edge loss compensation
- Very small sizes of heaters can be precisely manufactured
- Economical mass production
- Accurate reproduction of complex circuits

>> Typical applications

- Bathroom mirror heater
- De-icing equipment
- Rear view mirror
- Hand grip heater
- Cabinet heater

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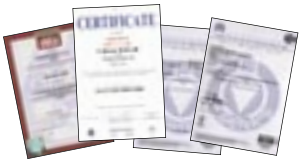

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