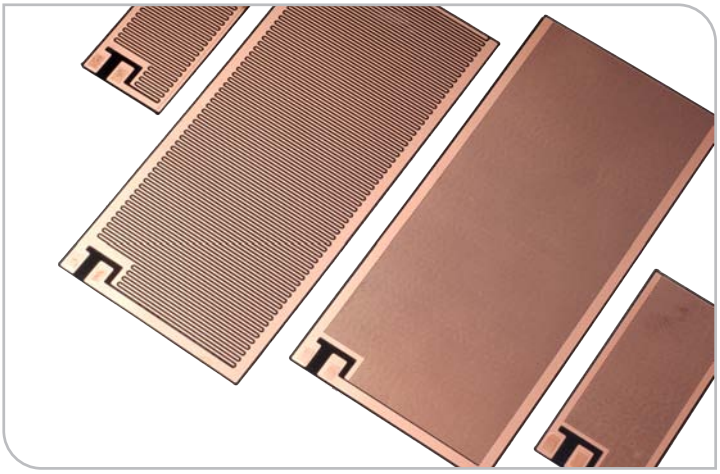
PTC Flex Heater



Design features:

- Energy optimizing
- Automatical off-switch - no risk of overheating
- No regulating electronics needed
- Thin and flexible
- No inrush current

Product description

The PTCflex foil uses a unique heating technology with strong PTC characteristic.That means that the heating power varies depending on the ambient temperature. The warmer the object gets the less he-ating power is produced by the heater. This selfregulation leads to a natural overheat control. In addition to the selfregulation, every point on the foil‘s surface is independantly temperature limiting, which optimizes the power consumption.

DBK’s knowledge of thermal management gives us the experience to guide and support you with your technical challenges - we can manage the complete project from concept to full production release.

Type	Width (mm)	Length (mm)	Thickness (mm)	Voltage (V)	Shut-off temperature (°C)	Power output at -20°C (W)	Power output at +20°C (W)
S-Cool 12V	35	70	0,35	12	25	0,5	0,1
M-Cool 12V	70	140	0,35	12	25	2	0,5
S-Cool 48V	35	70	0,35	48	30	2,5	0,5
M-Cool 48V	70	140	0,35	48	30	10	3
S-Warm 12V	35	70	0,35	12	70	60	35
M-Warm 12V	70	140	0,35	12	70	220	130
S-Warm 48V	35	70	0,35	48	70	100	40
M-Warm 48V	70	140	0,35	48	70	575	260

Standard Heater:

• AC/DC voltage	Yes/Yes
• Nominal voltages	12/48V
• Power output at -20°C	0,5 - 600W
• Temperature range	-60 bis 70°C
• Max. Ambient temp.	80°C
• Foil thickness	0,35mm
• Encapsulation	PET/PE
• Connection	Prepared for soldering
• RoHs compliant	Yes

Design parameters:

- Switch off temperature (20 - 90°C)
- Power at different temperatures
- Power emission (0,01 - 50W/cm²)
- Operating voltage (3 - 400V DC/AC)
- Shape and dimension
- Power distribution over the surface
- Encapsulation material

CE pending

DBK Group
Industrial Thermal Management

Further Information:
www.itm.dbk-group.com