## **Peltier Elements**

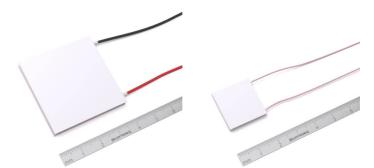
Datasheet

## **Functions**

Peltier elements are thermoelectric energy converters, which can be used both for heating and for cooling samples and objects. Compared to the significantly larger compressor coolers, they have a lower efficiency. However, you do not need any refrigerant. The cooling of the hot side can be realized using heat sinks or water cooling.

## **Key Features**

- ✓ Useable in continuous operation up to 150 °C
- Outer material: ceramic
- ✓ Epoxy sealing prevents corrosion
- Can be used in series and parallel connection (depending on voltage of power supply)



Name / Order Number: BAT -	PE-40-01	PE-20-01
Dimensions [mm]	40 x 40 x 3.8	20 x 20 x 2.5
Q <sub>Max</sub> [W]	82.1	20.9
$\Delta T_{Max}$ at $T_{Hot side} = 25^{\circ}C [K]$	72.5	72.5
Allowed $T_{\mbox{\tiny Max}}$ in continuous operation [°C]	150	150
U <sub>Max</sub> [V]	16.2	15.7
Recommended max. voltage in continuous operation	$0.8\cdot U_{\text{Max}}$	$0.8 \cdot U_{\text{Max}}$
I <sub>Max</sub> [A]	7.8	2.2
Recommended max. current in continuous operation	0.7 · I <sub>Max</sub>	0.7 · I <sub>Max</sub>
Cable length [mm]	400	150
Minimal cycling stability (60 s on/60 s off) [cycles]	60,000	60,000



