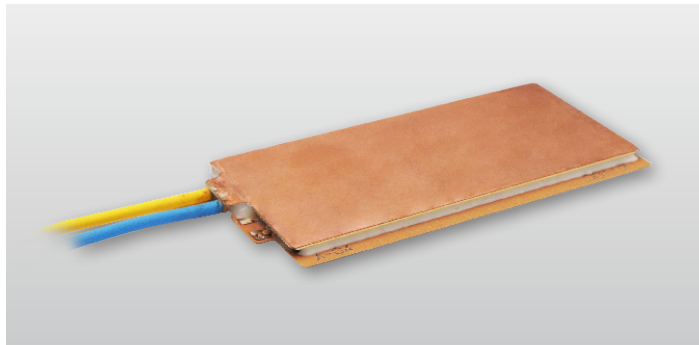


PELTIER MODULE / THERMOELECTRIC DEVICE (TED) FOR THERMAL MANAGEMENT



APPLICATIONS

- ▶ Power electronics cooling
- ▶ Battery thermal management
- ▶ Vehicle cabin heating / cooling
- ▶ Personalized climate comfort
- ▶ Blood test equipment, DNA amplifier
- ▶ Incubator

FEATURES

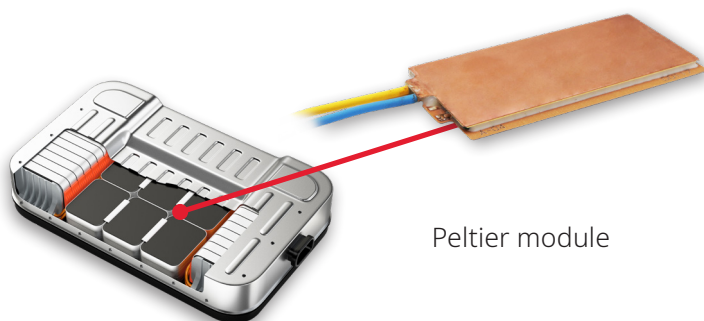
- ▶ Allows precise local temperature control
- ▶ Cooler and heater function is switchable by changing voltage direction
- ▶ High durability thanks to unique element shape
- ▶ Automotive quality grade

SPECIFICATIONS

Items	Typical Data	Condition
Size	40 x 40 mm	Reference
Delta T	> 67 °C	I = 8 A (I _{max})
R	1.9 Ω	
Q _c	68 W	Calculation
V _{max}	15 V	
I _{max}	8 A	

MATERIAL DETAILS

- ▶ Element material: BiTe
- ▶ Substrate material: Copper
- ▶ With fins on the substrate available



Peltier module

Battery housing

PELTIER EFFECT PRINCIPLE

