

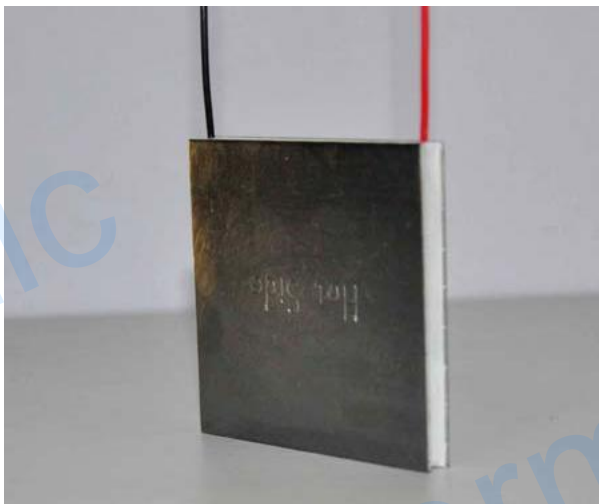
Specification of Thermoelectric Module

TEMP1-08318-3.5T270

Description

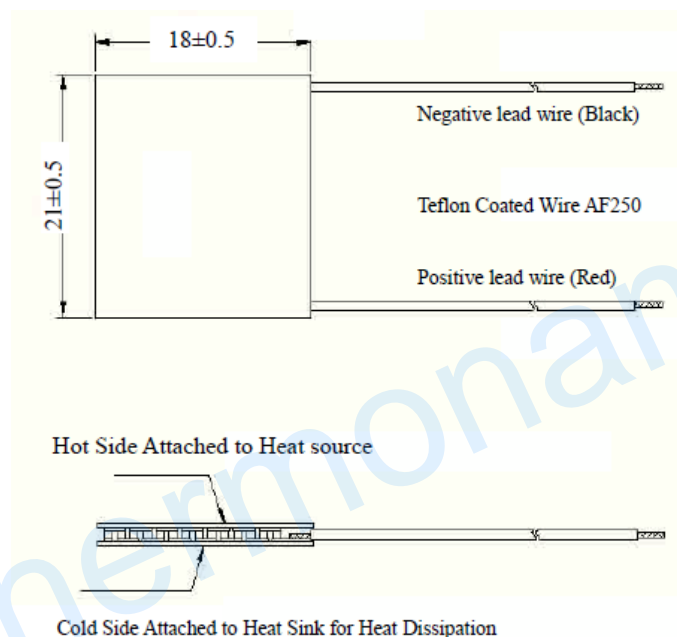
The module is designed and manufactured by our unique technology for converting heat source directly into electricity. The module is Bi-Te based thermoelectric module that can work at the temperature as high as 230 °C. The thermoelectric module will generate DC electricity as long as there is a temperature difference across the module. The more power will be generated when the temperature difference across the module becomes larger, and the efficiency of converting heat energy into electricity will increase therefore. The module is stuck with the high thermal conductivity graphite sheet on its both sides of the ceramic plates to provide low contact thermal resistance, hence you do not need to apply thermal grease or other heat transfer compound when you install the module. The graphite sheet can work well in extremely high temperature.

Specification of the Module



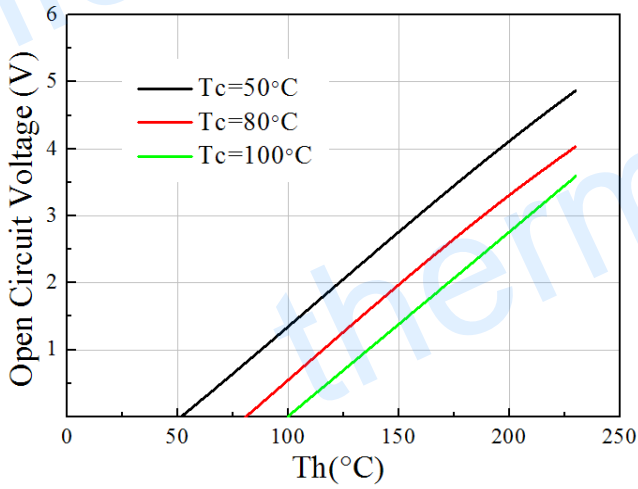
Hot Side Temperature (°C)	230
Cold Side Temperature (°C)	50
Open Circuit Voltage (V)	4.8
Matched Load Resistance (Ohms)	6.9
Matched load output voltage (V)	2.4
Matched load output current (A)	0.35
Matched load output power (W)	0.84
AC Resistance(ohms) Measured under 27 °C at 1000 Hz	3 ~ 4.5
Size of the module (mm)	21×18×4.5±0.1

Geometric Characteristics Dimensions in millimeter

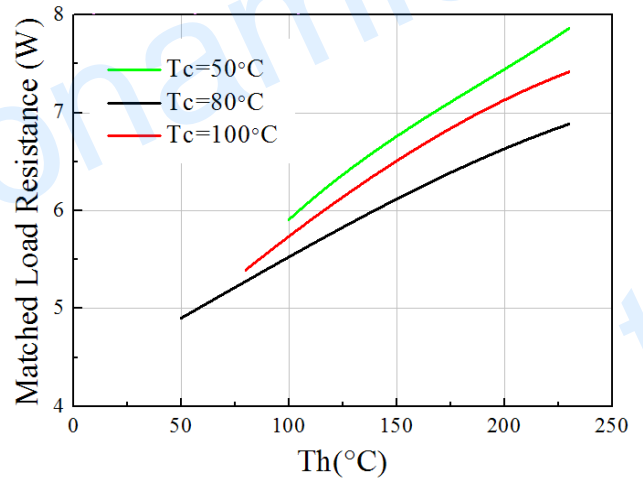


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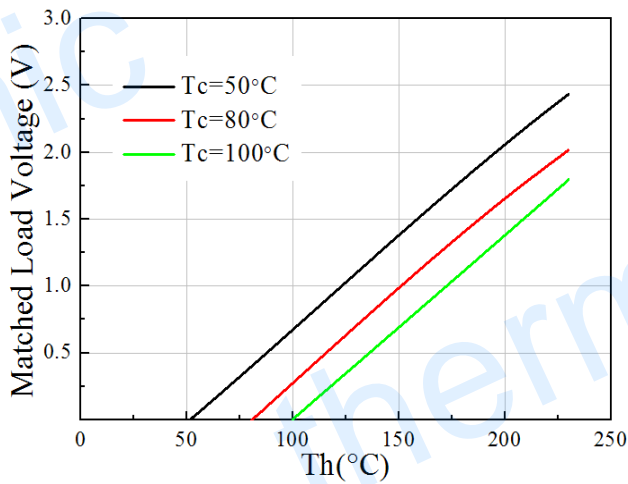
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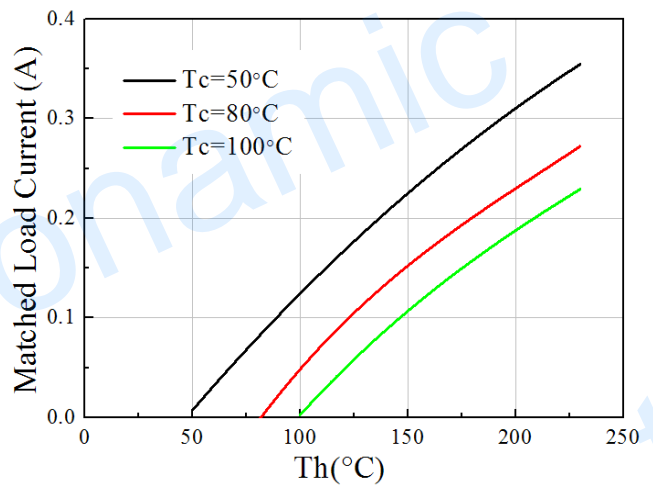
The chart for open circuit voltage Vs T_h under various T_c



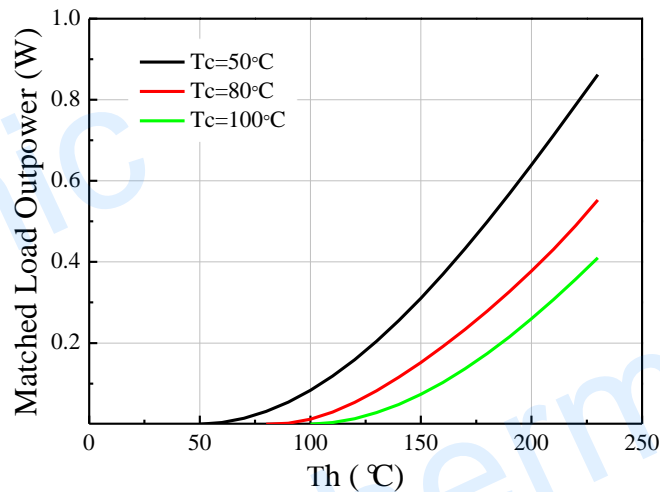
The chart for matched load resistance Vs T_h under various T_c



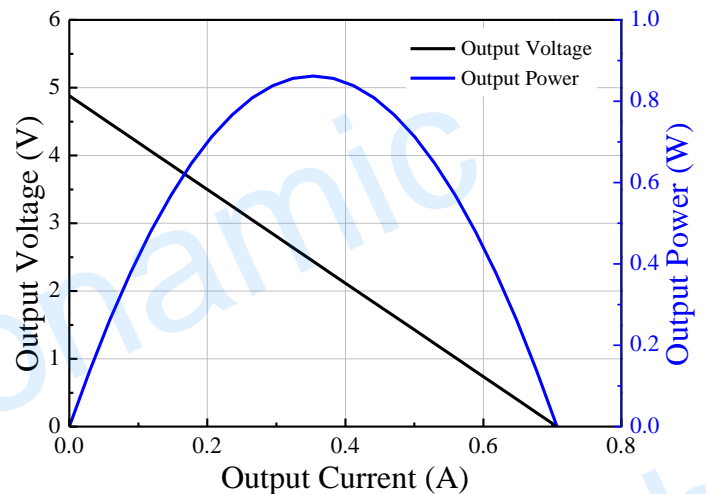
The chart for matched load voltage Vs T_h under various T_c



The chart for matched load current Vs T_h under various T_c



The chart for matched load output power Vs T_h under various T_c



The chart for output voltage and output power Vs output current under $T_h=300^\circ\text{C}$ and $T_c=30^\circ\text{C}$