

## Specification of Thermoelectric Module

### TEMP1-0725-0.15

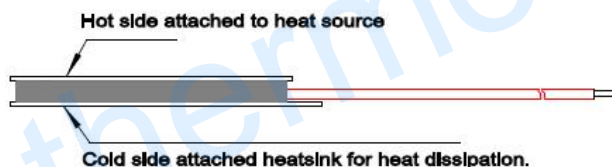
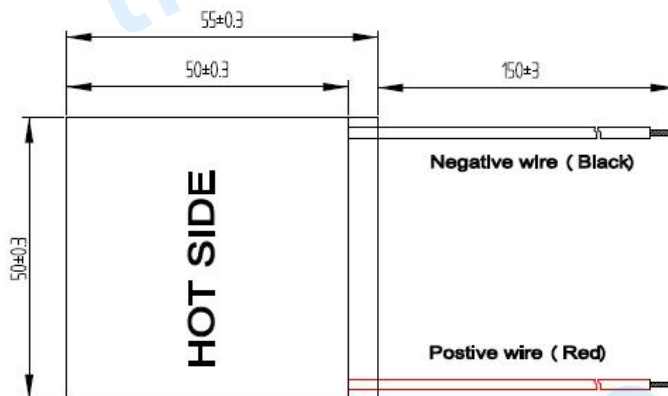
#### Description

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 250 °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 can be stuck with the high thermal conductivity graphite sheet on its both sides of the ceramic plates or apply thermal grease or other heat transfer compound when you install the module. The hot side of the module which marked “Hot Side” should be attached to the heat source.



Hot Side Temperature (°C)	250
Cold Side Temperature (°C)	50
Open Circuit Voltage (V)	2.8
Matched Load Resistance ( $\Omega$ )	0.7
Matched load output voltage (V)	1.4
Matched load output current (A)	2.4
Matched load output power (W)	3.35
Heat flow across the module (W)	55
Heat flow density ( $W \cdot cm^{-2}$ )	2.2
AC Resistance ( $\Omega$ ) Measured under 27 °C at 1000Hz	0.15~0.20
Size of the module (mm)	$50 \times 50/55 \times 5.0^{+0.1}$

#### Geometric Characteristics Dimensions in millimeter



Quality control: Its AC Resistance should be within range of 0.15 ~0.20Ohm under 27 °C.

Creative technology with fine manufacturing processes provides you the reliable and quality products.

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