

# Peltier Element

## Features

- The Thermoelectric modules utilise the Peltier phenomenon principle to pump heat when voltage is applied
- When supplied with a suitable electric current, they can either cool or heat
- Suited for cooling miniature electronic components such as infra-red detector chips, microwave IC's, fibre-optic lasers and detectors
- Solid-state long term stability

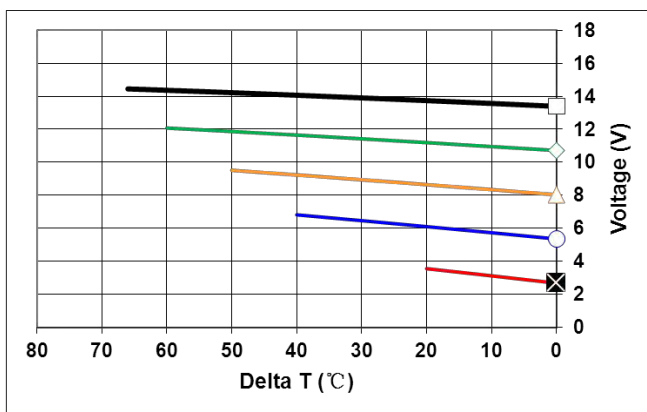


## Specification

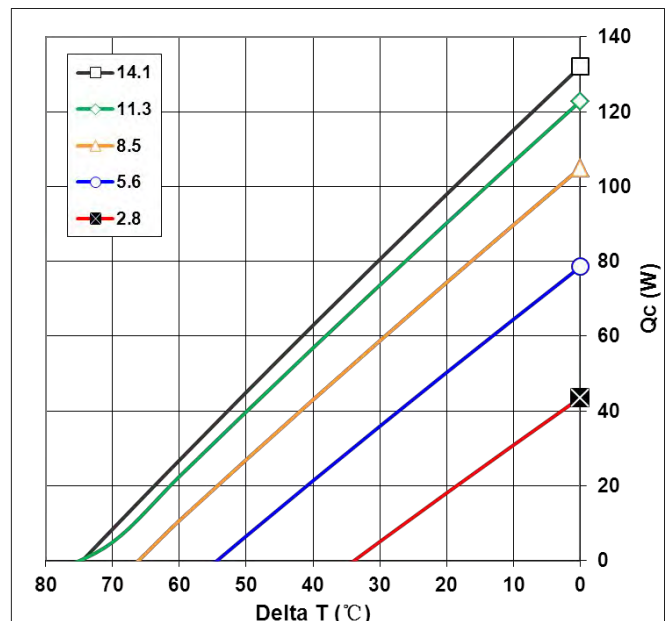
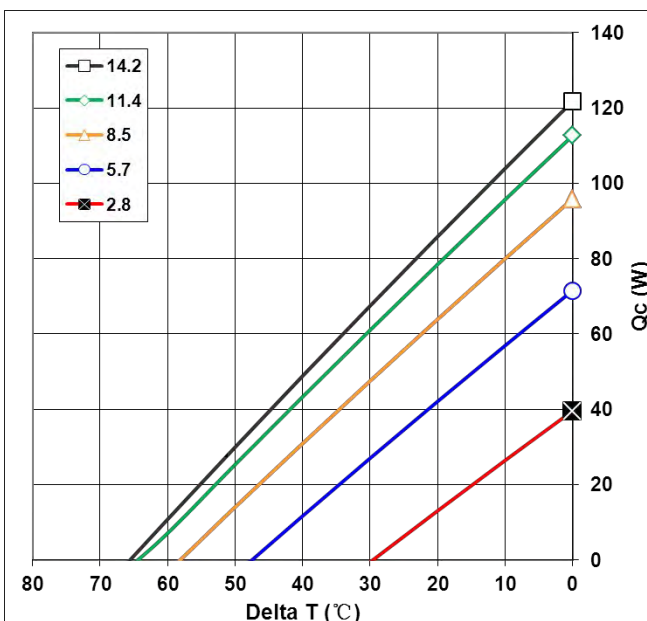
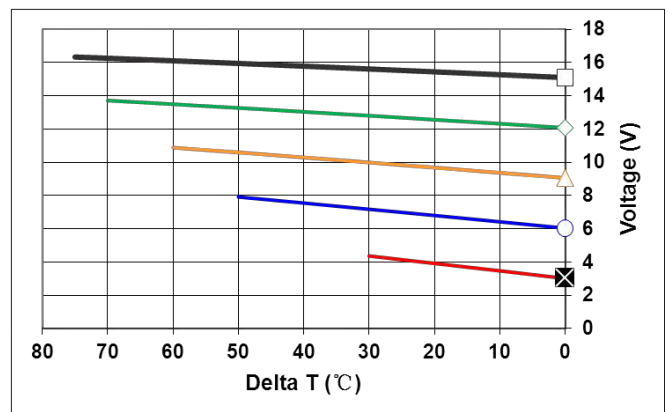
Hot Side Temperature	25 °C	50 °C
Qmax	120 W	132 W
Delta Tmax	67 °C	75 °C
Imax	14 A	14 A
Vmax	15.4 V	16.4 V
Module Resistance	940 mOhm	1.06 Ohm

Tolerances for thermal and electrical parameters  $\pm 10\%$

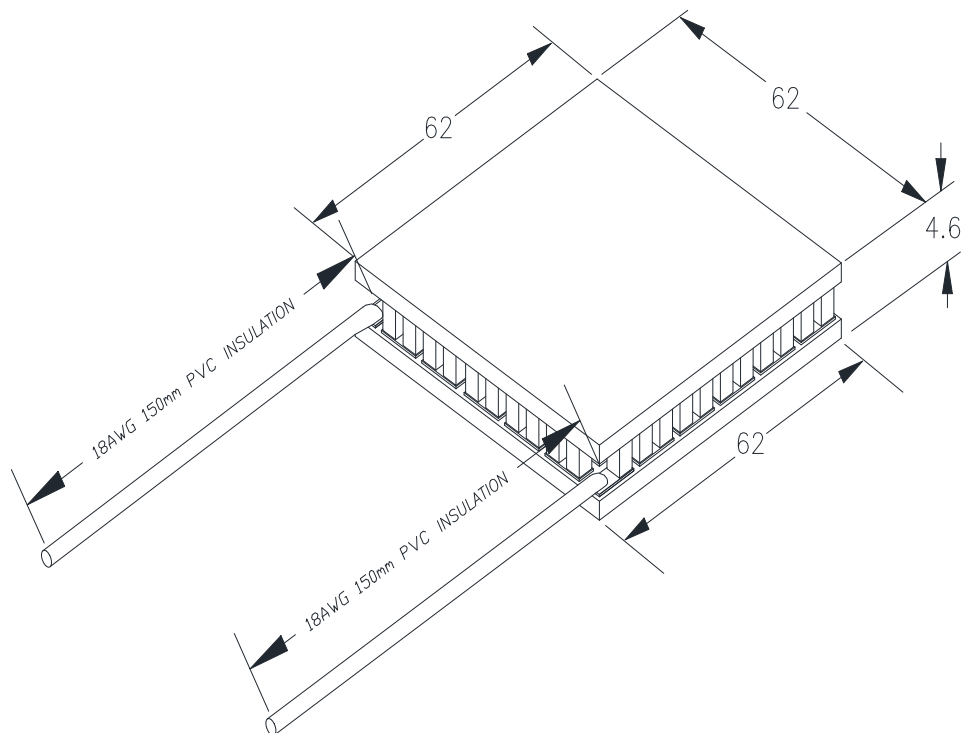
### Performance Curves Th=25 °C



### Performance Curves Th=50 °C



## Mechanical Drawing



## Operation Tips

- Max Operating Temperature: 90°C
- Do not exceed  $I_{max}$  or  $V_{max}$  when operating module
- Please consult RND for moisture and corrosion protection options

Art Nr.

**RND 460-00143**