

# 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

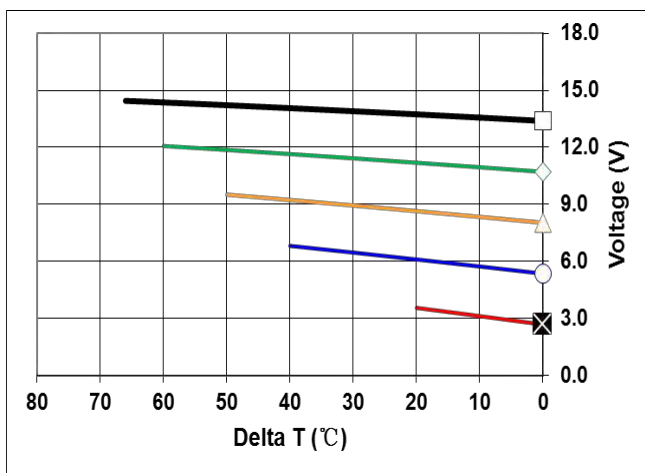


## Specification

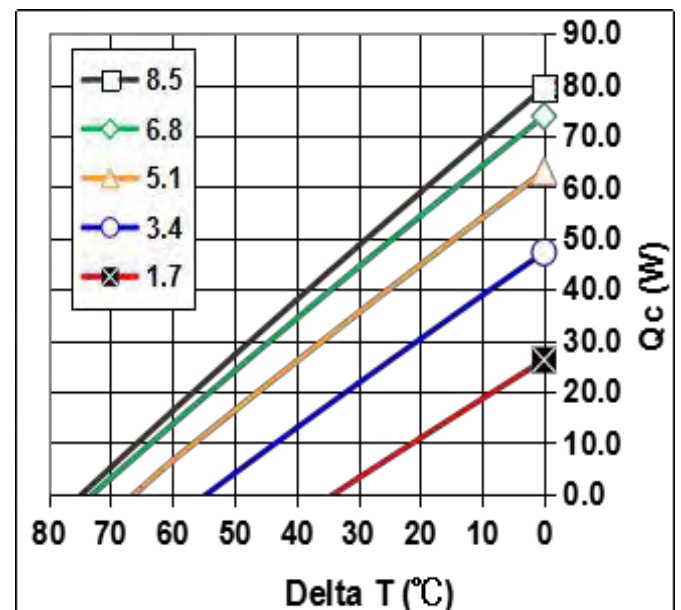
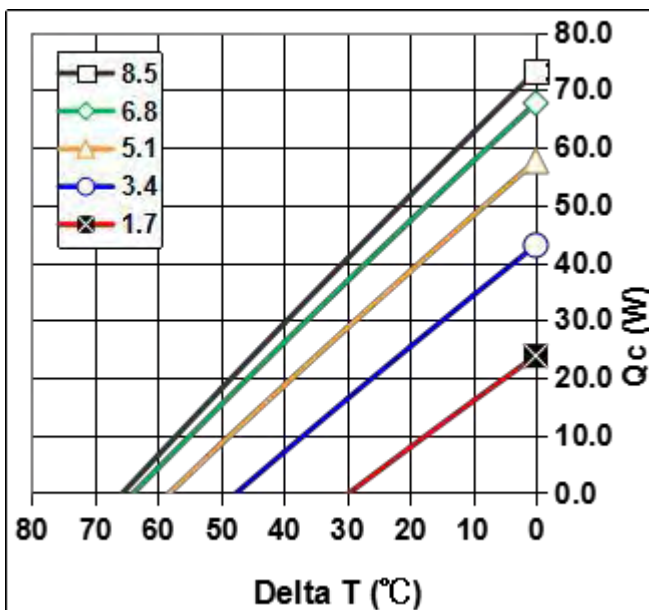
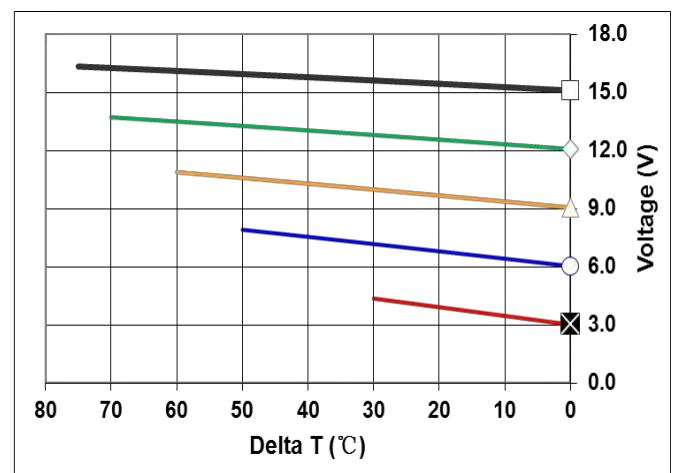
Hot Side Temperature	25 °C	50 °C
Qmax	72 W	80 W
Delta Tmax	67 °C	75 °C
I <sub>max</sub>	8 A	8 A
V <sub>max</sub>	15.4 V	16.3 V
Module Resistance	1.55 Ohm	1.77 Ohm

Tolerances for thermal and electrical parameters ± 10%

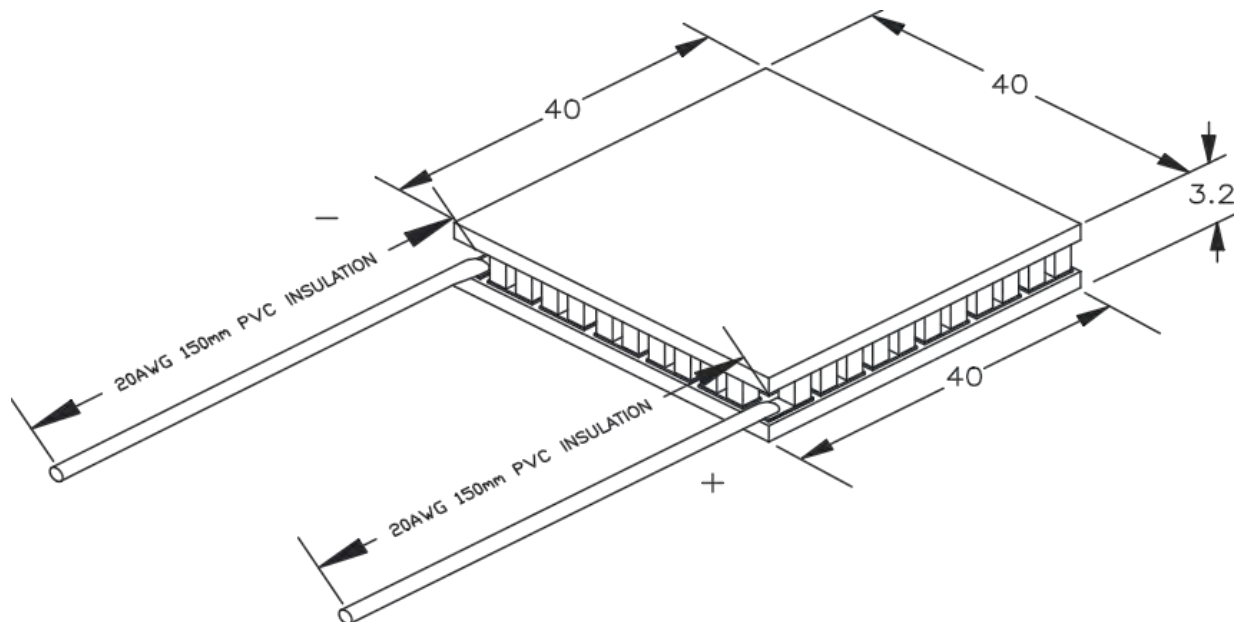
### Performance Curves Th=25 °C



### 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 460-00145