

# 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

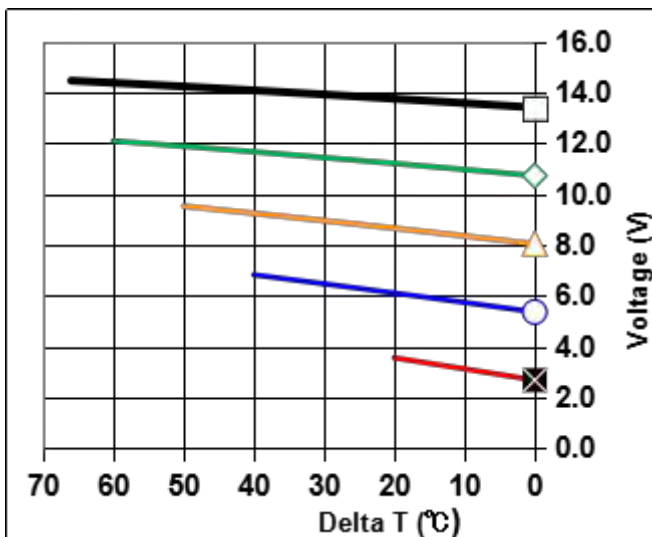


## Specification

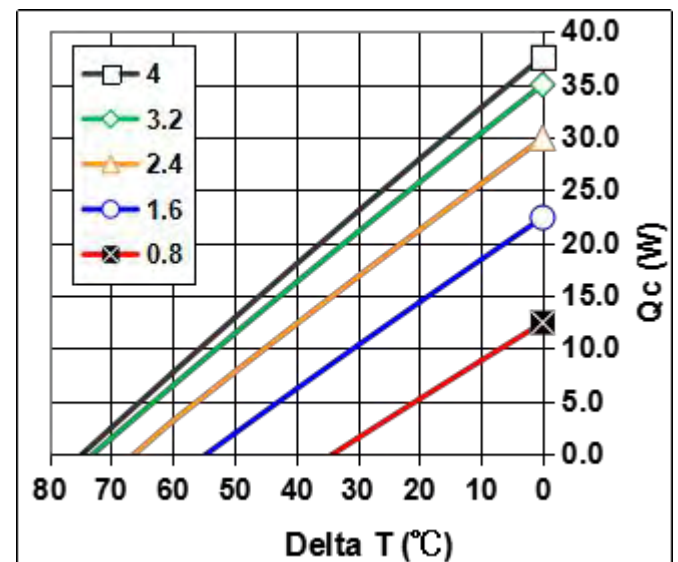
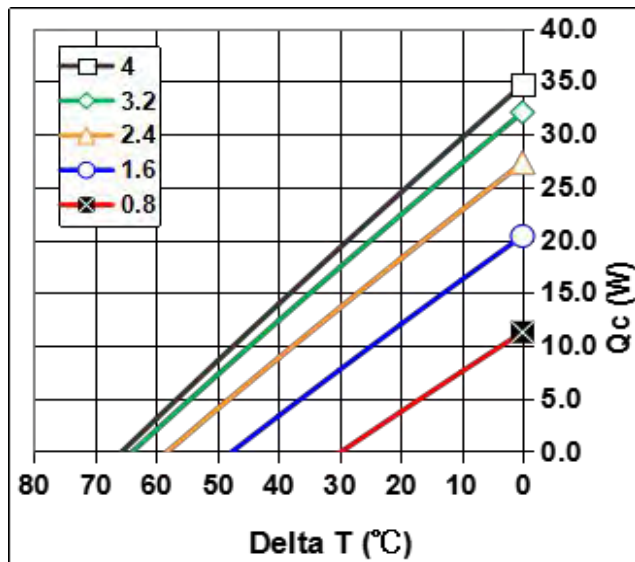
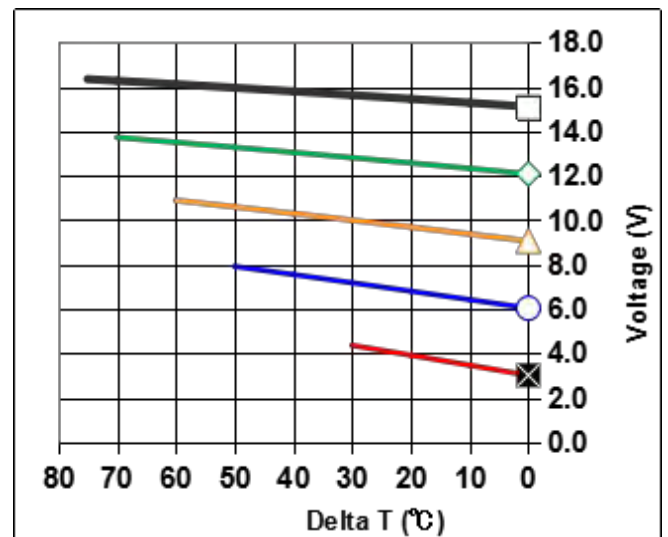
Hot Side Temperature	25 °C	50 °C
Qmax	35 W	37 W
Delta Tmax	68 °C	75 °C
Imax	4 A	4 A
Vmax	14.6 V	16.3 V
Module Resistance	3.41 Ohm	3.85 Ohm

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

Performance Curves Th=25 °C

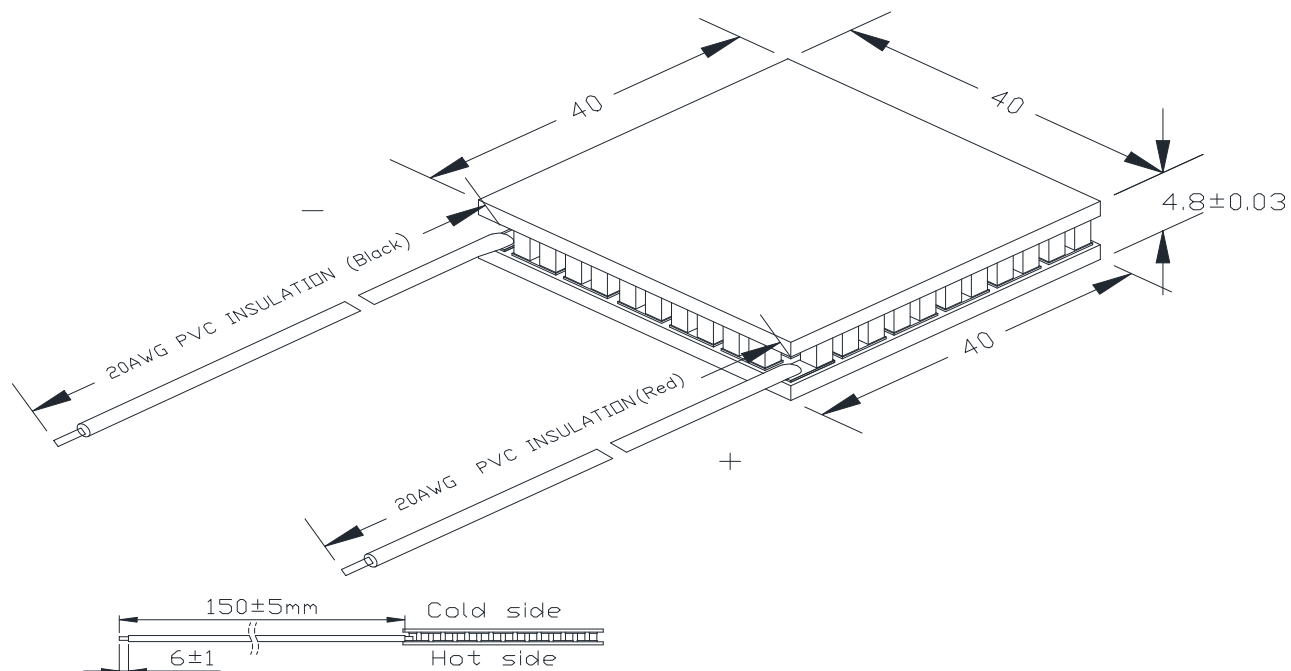


Performance Curves Th=50 °C



# Peltier Element

## Mechanical Drawing



## Operation Tips

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

Art Nr.

RND 460-00148