

# 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

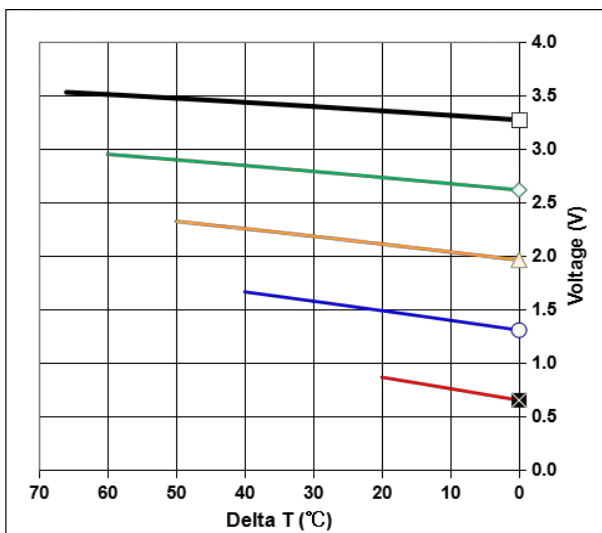


## Specification

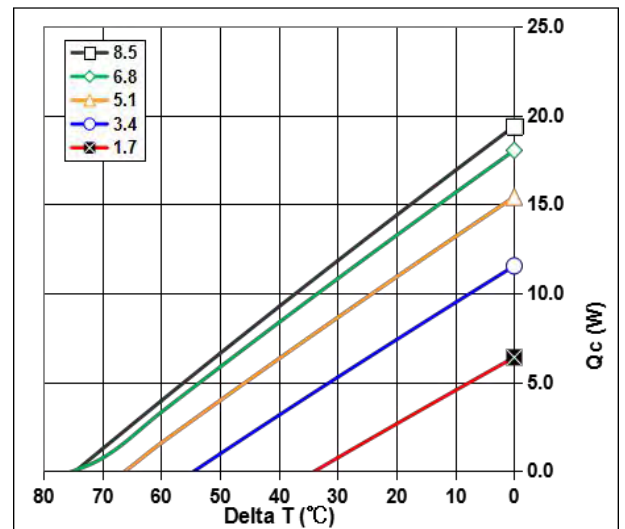
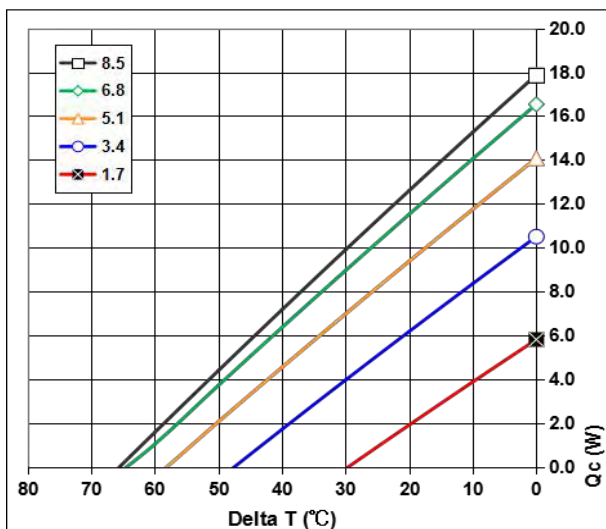
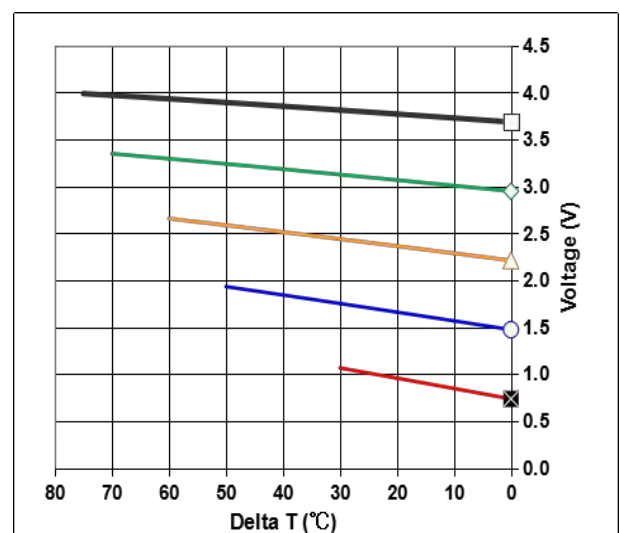
Hot Side Temperature	25 °C	50 °C
Qmax	17 W	19 W
Delta Tmax	67 °C	75 °C
Imax	8 A	8 A
Vmax	3.7 V	3.9 V
Module Resistance	380 mOhm	430 mOhm

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

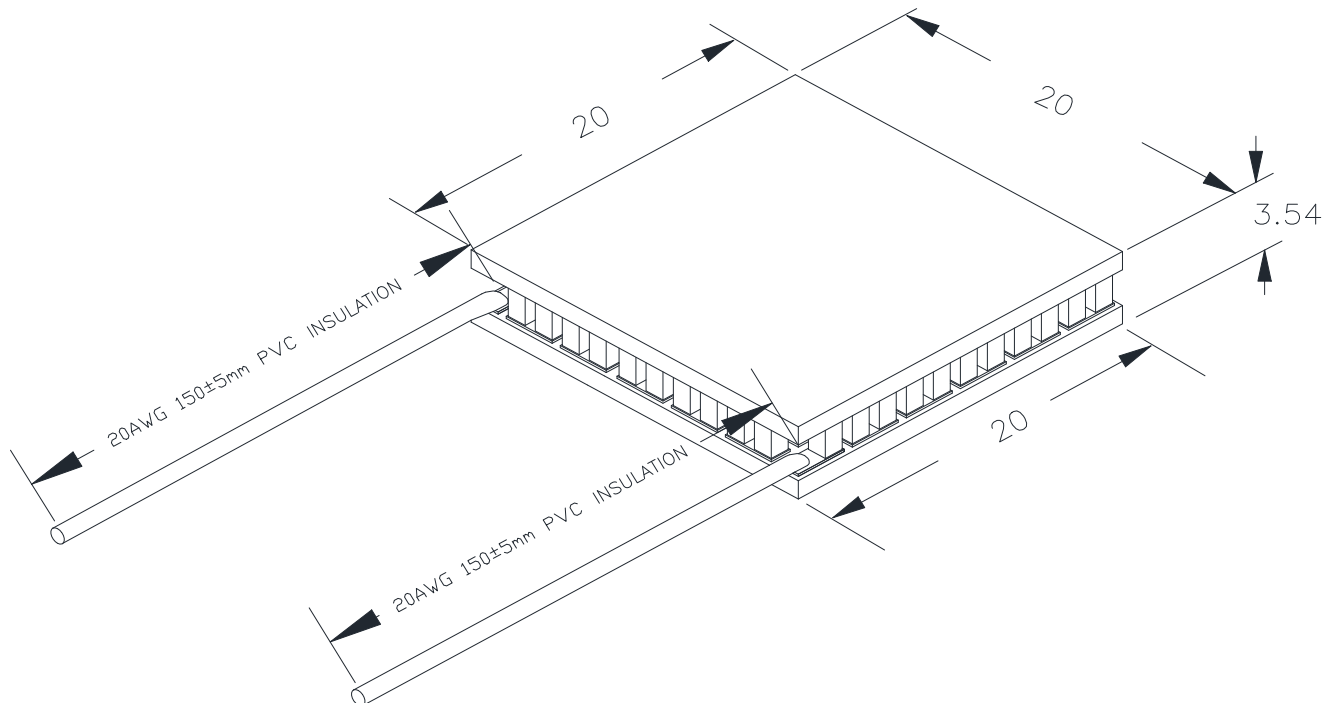
### Performance Curves Th=25 °C



### 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 460-00154