

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

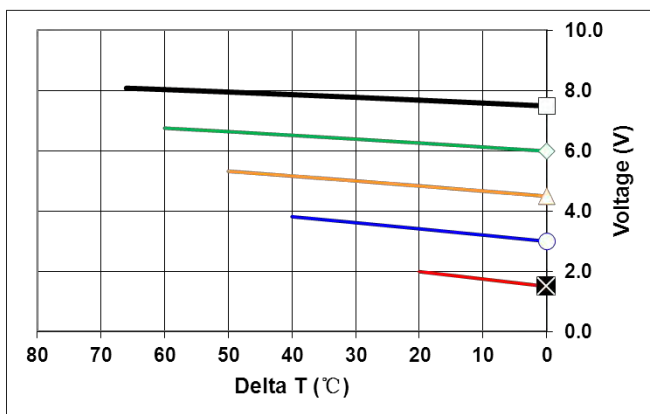


Specification

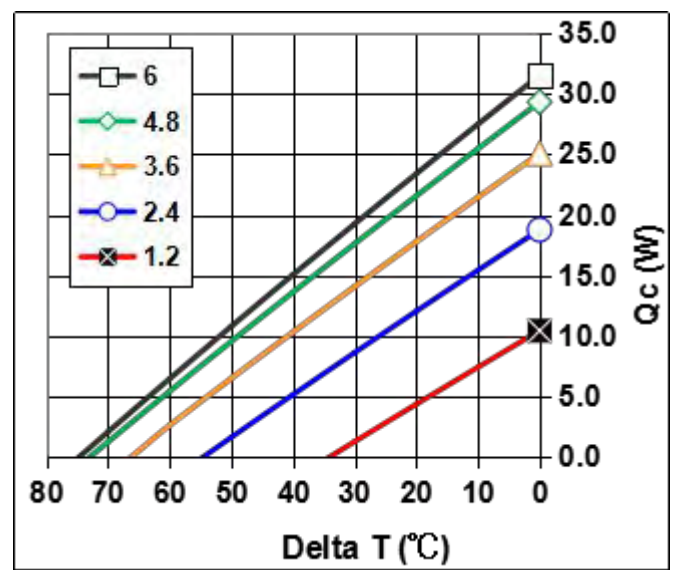
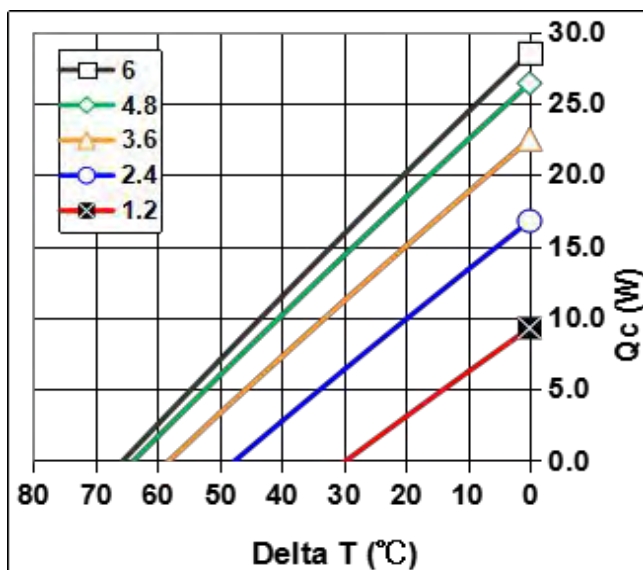
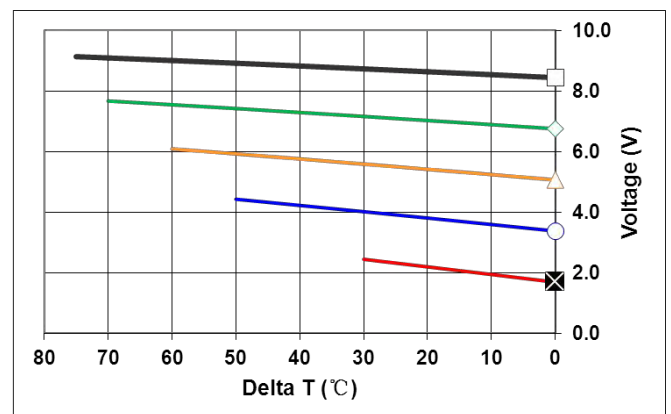
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|----------------------|----------|---------|
| Hot Side Temperature | 25 °C | 50 °C |
| Q _{max} | 28.7 W | 31.4 W |
| Delta Tmax | 67 °C | 75 °C |
| I _{max} | 6 A | 6 A |
| V _{max} | 8.1 V | 9.2 V |
| Module Resistance | 1.23 Ohm | 1.4 Ohm |

Tolerances for thermal and electrical parameters ± 10%

Performance Curves Th=25 °C

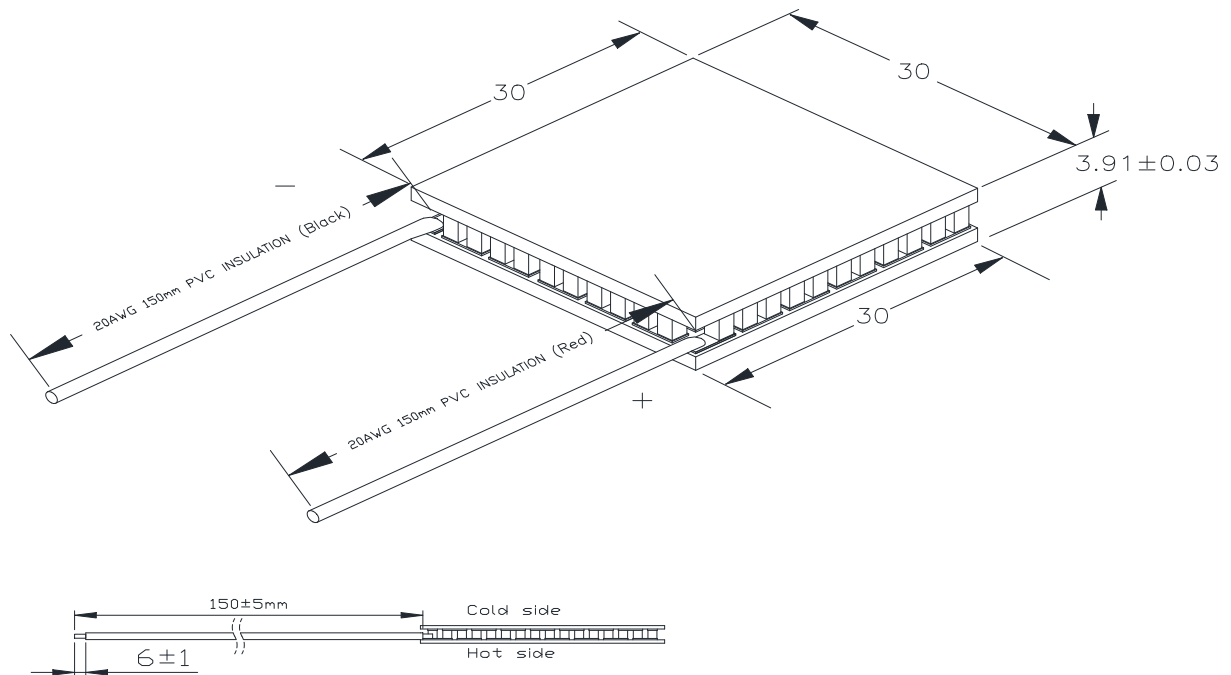


Performance Curves Th=50 °C



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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 460-00147