

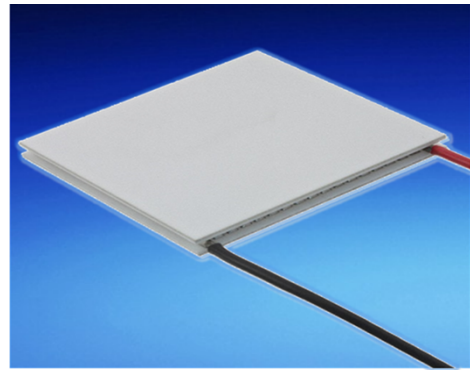


Thermoelectric Cooler Performance Specifications

TES1-017040-12X12 W150mm

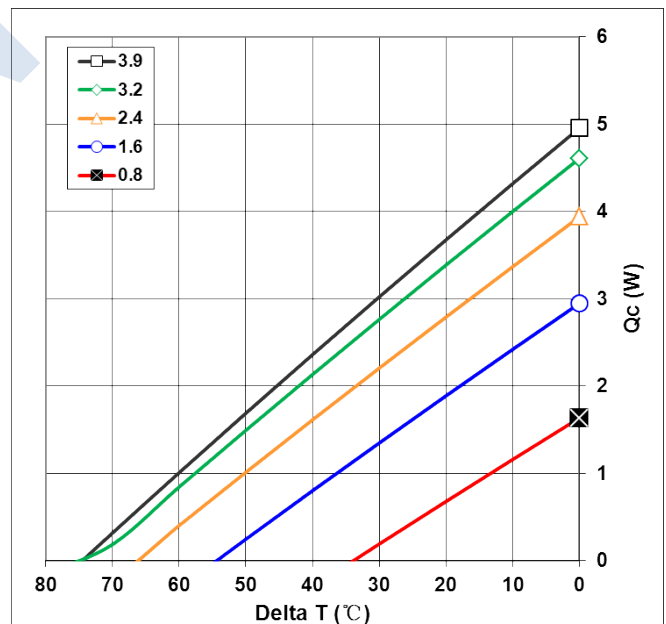
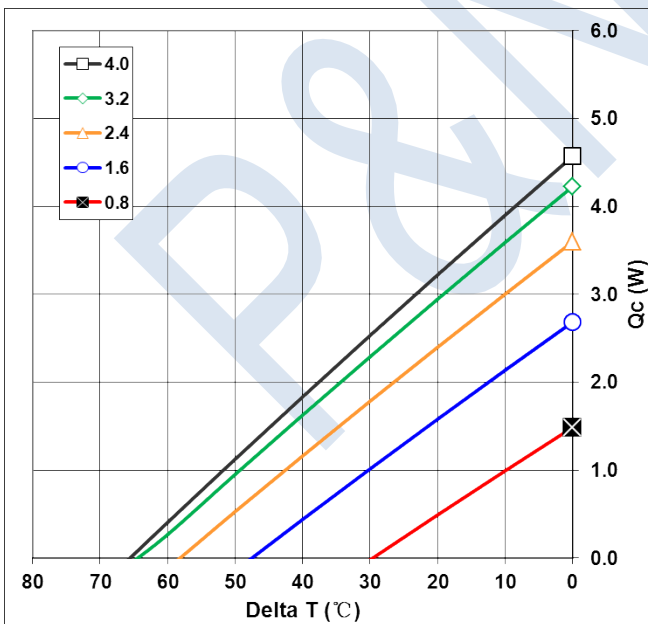
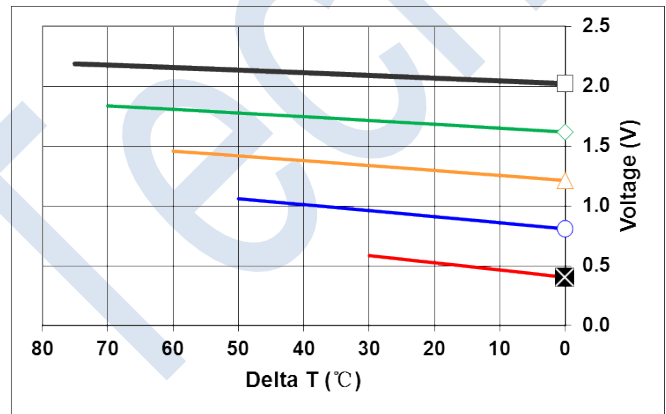
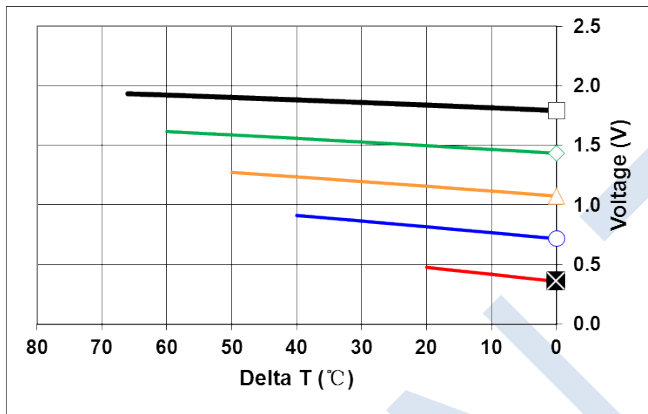
Hot Side Temperature(°C)	25 °C	50 °C
Qmax (Watts)	4.5	5.1
Delta Tmax(°C)	67	75
I <sub>max</sub> (Amps)	3.9	3.9
V <sub>max</sub> (Volts)	2.06	2.25
Module Resistance(Ohms)	0.43	0.49

\*\*Tolerances for thermal and electrical parameters ± 10%.

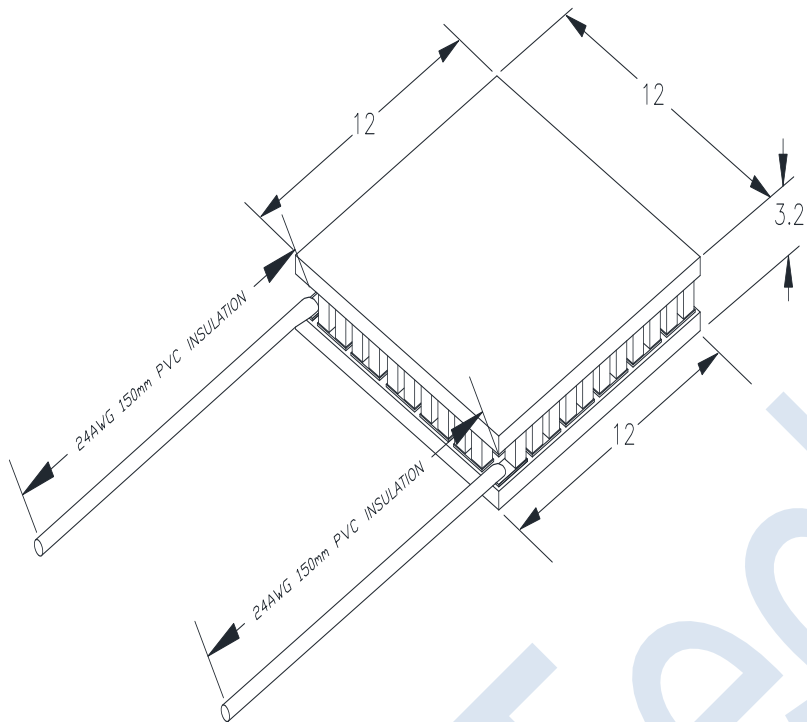


Performance Curves Th=25 °C

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 P&N Technology for moisture and corrosion protection options.

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