

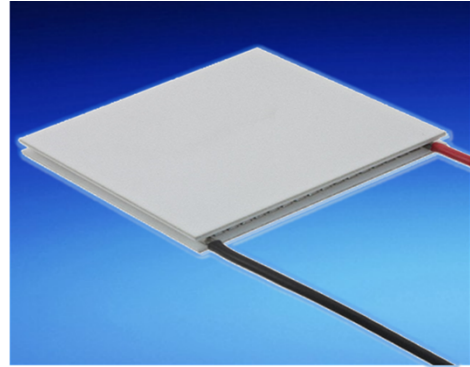


Thermoelectric Cooler Performance Specifications

TES1-031021-12X12 W150mm

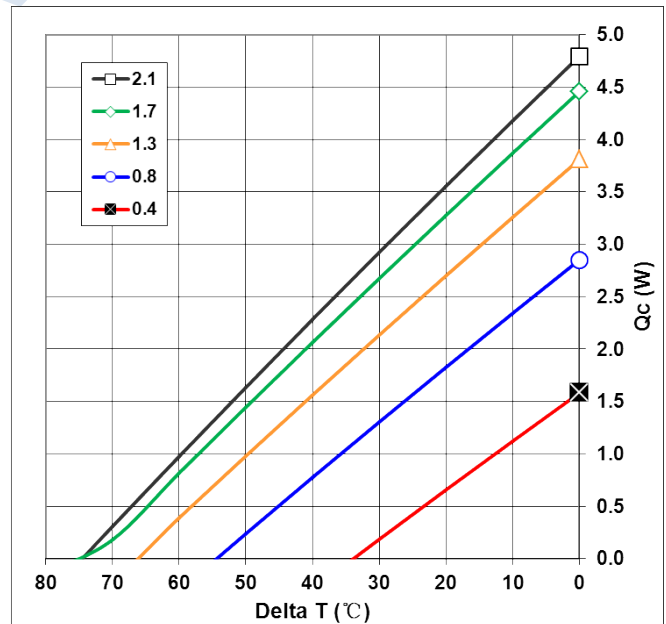
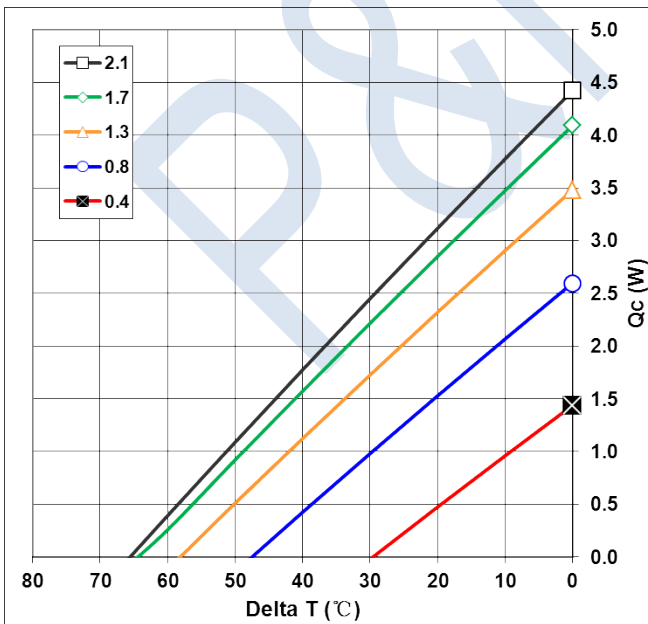
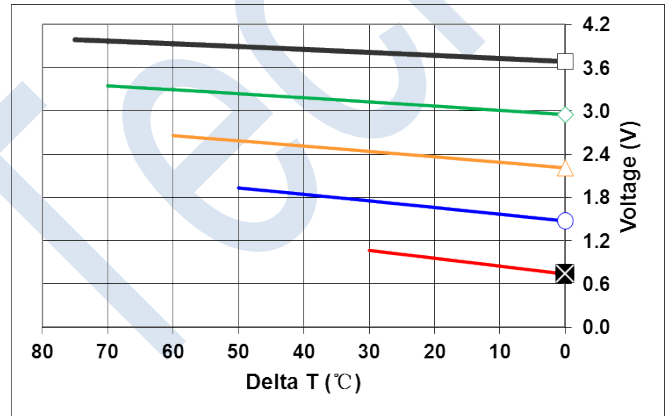
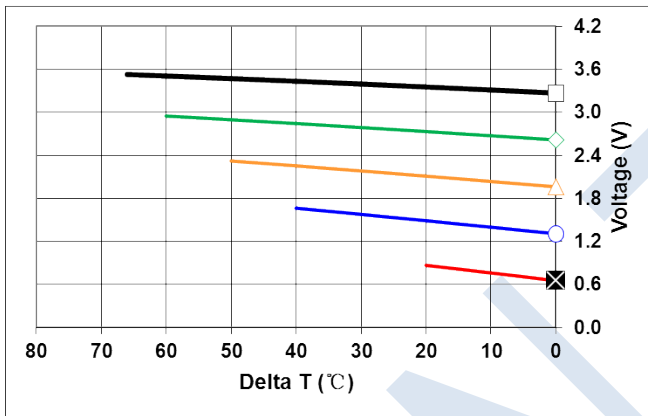
Hot Side Temperature(°C)	25 °C	50 °C
Qmax (Watts)	4.4	4.8
Delta Tmax(°C)	67	75
I <sub>max</sub> (Amps)	2.1	2.1
V <sub>max</sub> (Volts)	3.75	4.1
Module Resistance(Ohms)	1.55	1.75

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

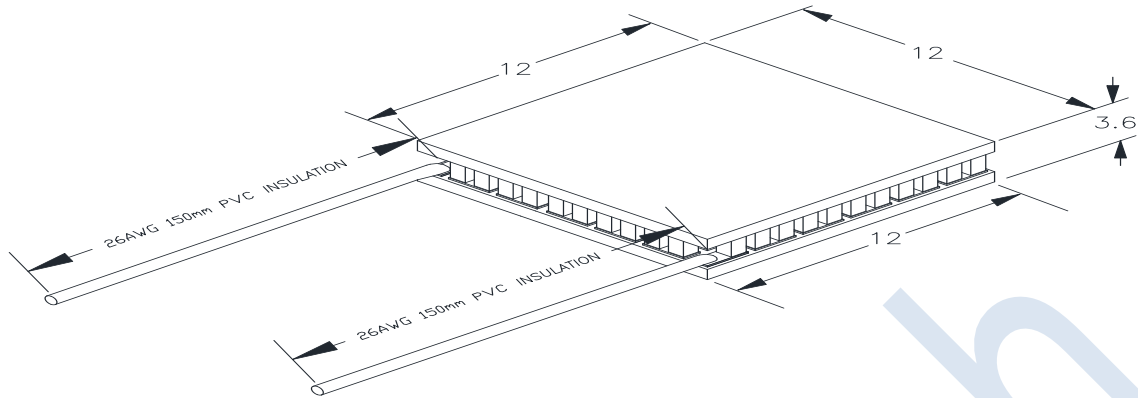


Performance Curves Th=25 °C

Performance Curves Th=50 °C



Mechanical Drawing :



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#### 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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**Address:** 5/F Xinfai Building 28<sup>th</sup> Xiangming Road, Torch (xiang'an) Hi-tech Zone, Xiamen Fujian China.

**Sales Tel:** + 86 - 592 - 352 1988

**Fax:** +86-592-352 1989

**Postcode:** 361 101

**Web:** [www.pengnantech.com](http://www.pengnantech.com)