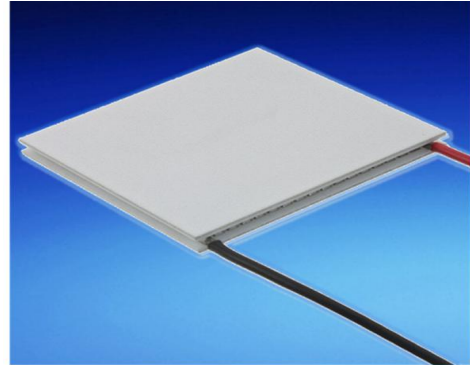


**Thermoelectric Cooler Performance Specifications**

TES1-017040-12X12S-W150

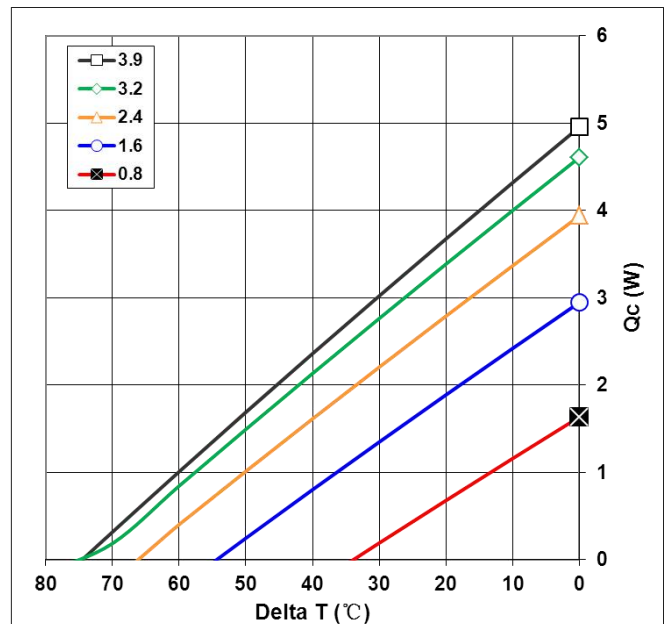
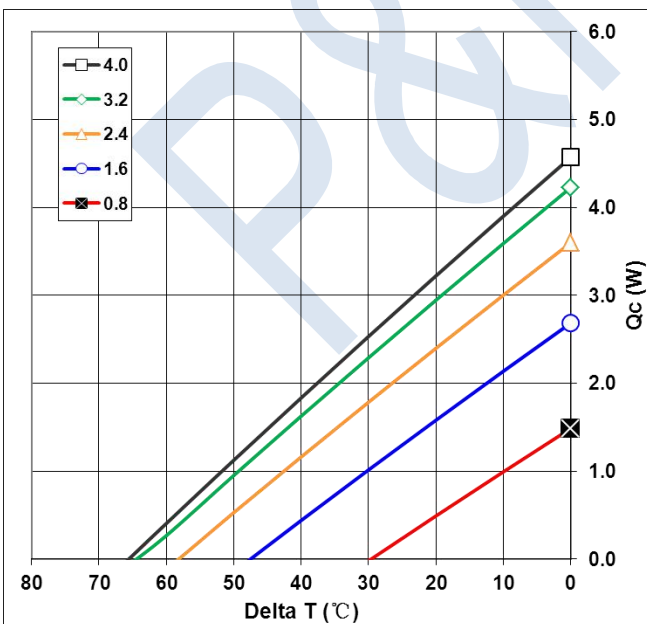
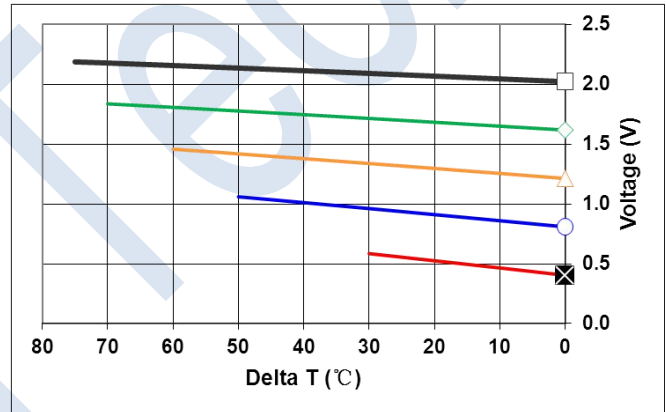
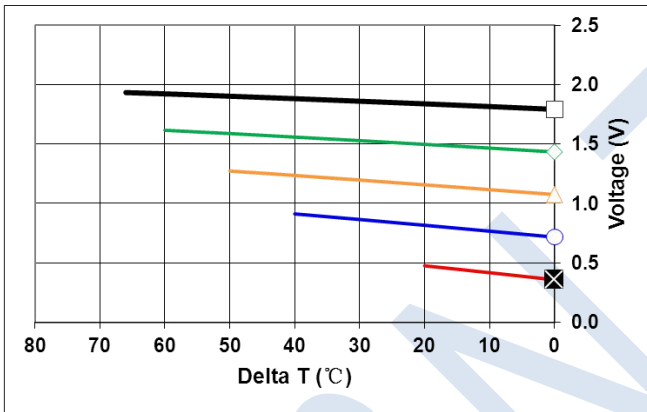
Hot Side Temperature(°C)	27°C	50°C
Qmax (Watts)	4.5	5.1
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	3.9	3.9
V <sub>max</sub> (Volts)	2.1	2.25
Module Resistance(Ohms)	0.45	0.51

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

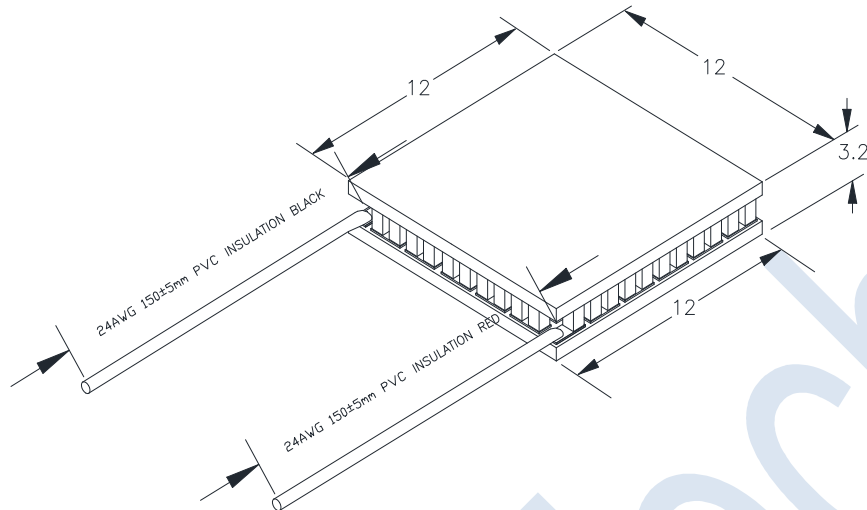


**Performance Curves Th=27°C**

**Performance Curves Th=50°C**



## Mechanical Drawing:



Module is sealant by RTV sealant.

**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.

**Address:** 5/F Xinfei 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)