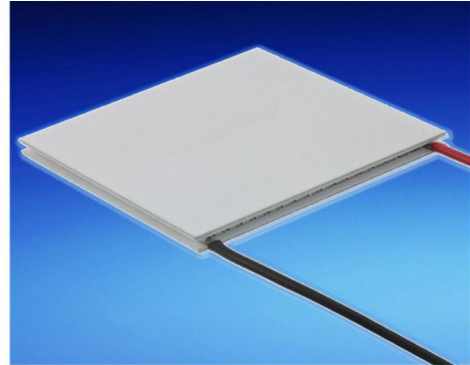


**Thermoelectric Cooler Performance Specifications**

**TES1-071040-23X23S-W150**

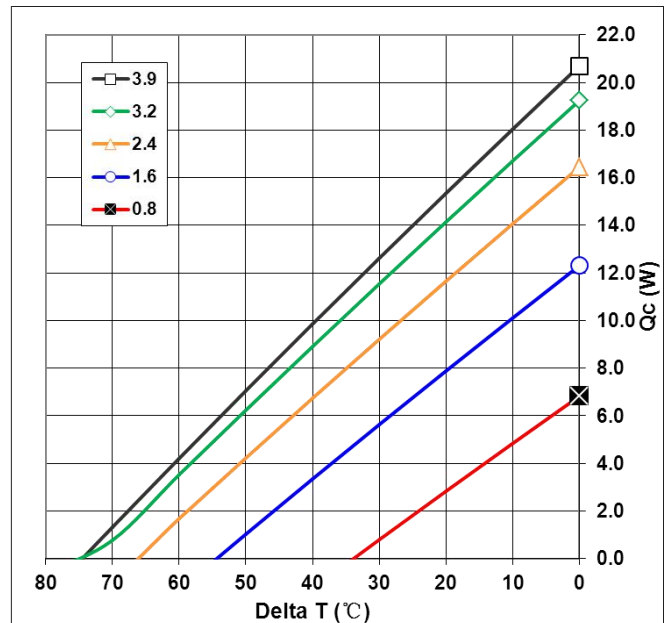
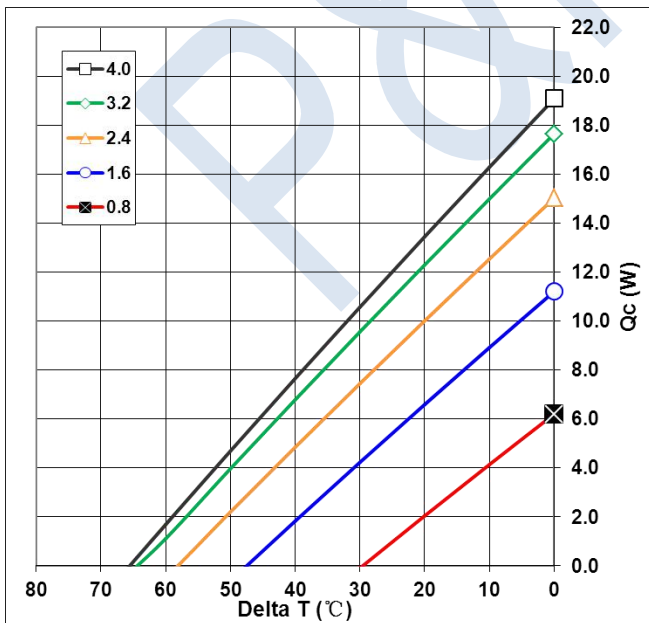
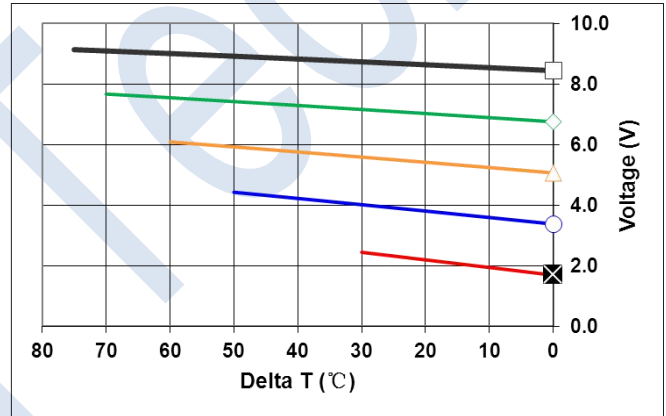
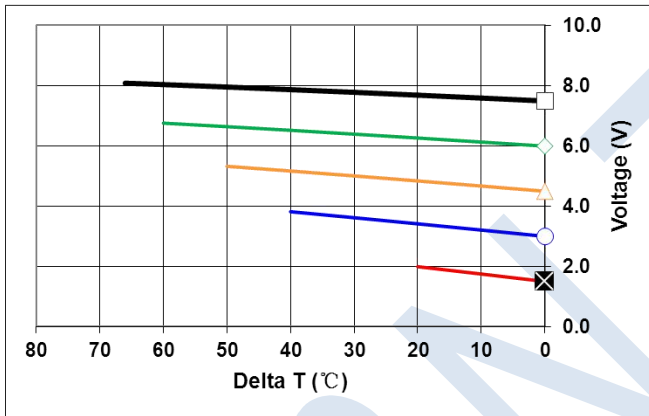
Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	18.7	20.8
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	3.9	3.9
V <sub>max</sub> (Volts)	8.6	9.2
Module Resistance(Ohms)	1.88	2.12

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

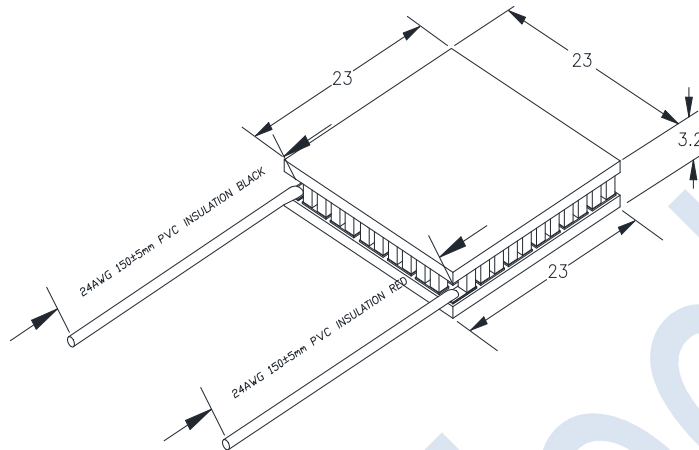


**Performance Curves Th=27 °C**

**Performance Curves Th=50 °C**



## Mechanical Drawing:



Module is sealed 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.

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