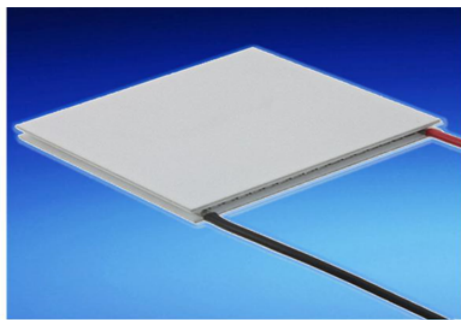


Data Sheet

Technical Data Sheet for TES1-127040-30x30 S W150mm

Single-Stage Thermoelectric Module



PERFORMANCE PARAMETERS

Hot Side Temperature (°C)	25°C	50°C
Q_{max} (watts):	34	37
ΔT_{max} (°C):	67	75
I_{max} (amps):	4	4
V_{max} (vdc):	15.4	16.3
AC Resistance (ohms):	3.37	3.80

**Tolerances for thermal and electrical parameters are $\pm 10\%$.

PRODUCT FEATURES

- Precise temperature control
- Compact geometric sizes and lightweight
- Reliable solid state operation
- No sound or vibration
- Environmentally friendly
- DC operation
- RoHS REACH Compliant

MANUFACTURING SPECIFICATIONS

Sealer	RTV
Ceramic Plate	Blank Ceramics (96% Al ₂ O ₃)
Lead Wires	PVC 24AWG
Lead Wire Length	150 \pm 5mm
Solder Construction	138° C
Module Size (mm)	30 \pm 0.1, 30 \pm 0.1, 30 \pm 0.1, 3.2 \pm 0.2
Flatness/Parallelism	0.05 / 0.05 mm
Marking	P/N & S/N printed on cold side <u>surface</u>

OPERATION CAUTIONS

- For maximum reliability, storage and operation below 90°C in a non-condensing environment is recommended.
- Do not exceed I_{max} or V_{max} when operating module.
- To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

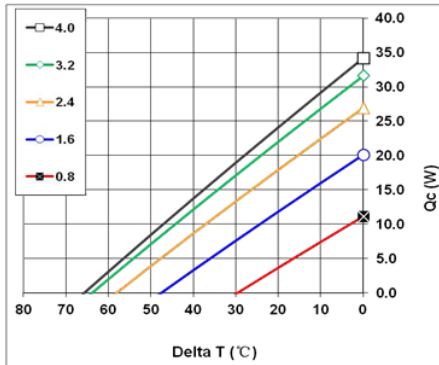
INSTALLATION

For installation assistance, please consult P&N Technology.

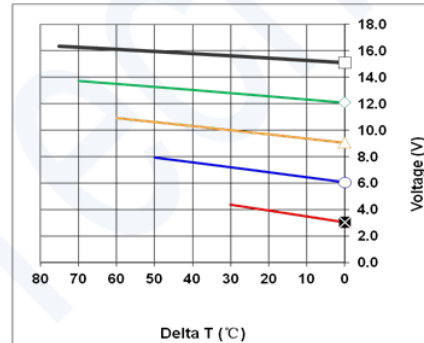
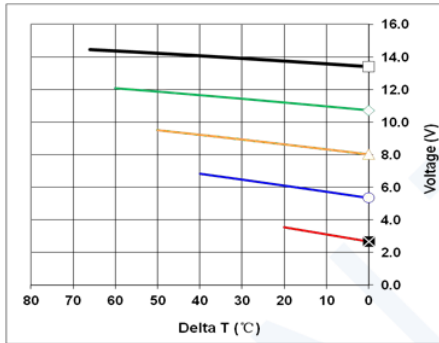
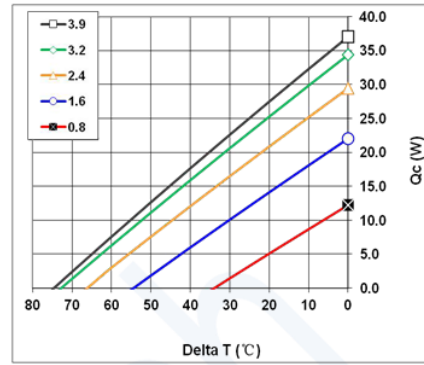
Data Sheet

PERFORMANCE CURVES

Hot Side Temperature 25°C



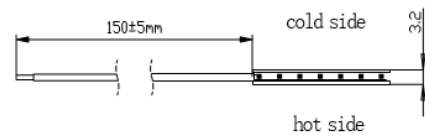
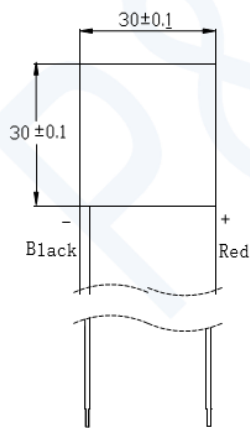
Hot Side Temperature 50°C



Delta T (°C)

Delta T (°C)

MECHANICAL DRAWING



**All units are in millimeters unless otherwise stated.