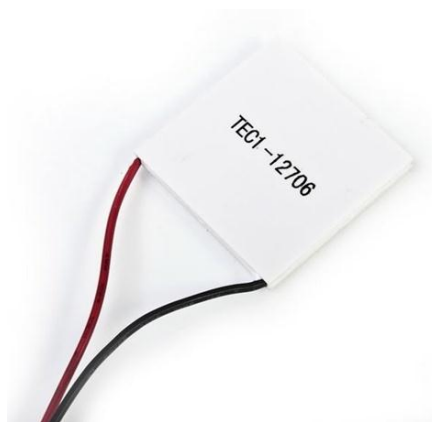




TEC1-127xx Thermoelectric Cooler

Thermoelectric or Peltier Cooling Modules (also known as a TEC or a TEM) come in a wide variety of types and sizes. A thermoelectric cooling (TEC) module is a semiconductor-based electronic component that functions as a small heat pump. By applying DC power source to a TEC, heat will be transferred from one side of the module to the other. It creates a cold and hot side. They are widely used in industrial areas, for example, computer CPU, CCDs, portable refrigerators, medical instruments, and so on. While typically used for cooling, they can also be used for heating (by reversing the electric current flow) and even power generation.



SKU: [PAX-1166](#)

Model number: TEC1-12705

- Dimensions : 40mm x 40mm x 3.75mm
- Voltage : 12V (Max 15.5V)
- I_{max}: 5A @ 12V
- Q_cMax: 45W
- DT_{max}: >61°C
- Internal resistance: 2.4 ~ 2.7 Ω (at temp 25C)
- Assembly pressure: 85N/cm²
- Power Cord : 300mm

Model number: TEC1-12706:

- Dimensions : 40mm x 40mm x 3.75mm
- Voltage : 12V (Max 15.5V)
- I_{max}: 4 ~ 4.6A @ 12V
- Q_cMax: 50~60W
- DT_{max}: > 67°C
- Internal resistance: 2.1 ~ 2.4 Ω (at temp 25C)

- Assembly pressure: 85N/cm²
- Power Cord : 300mm

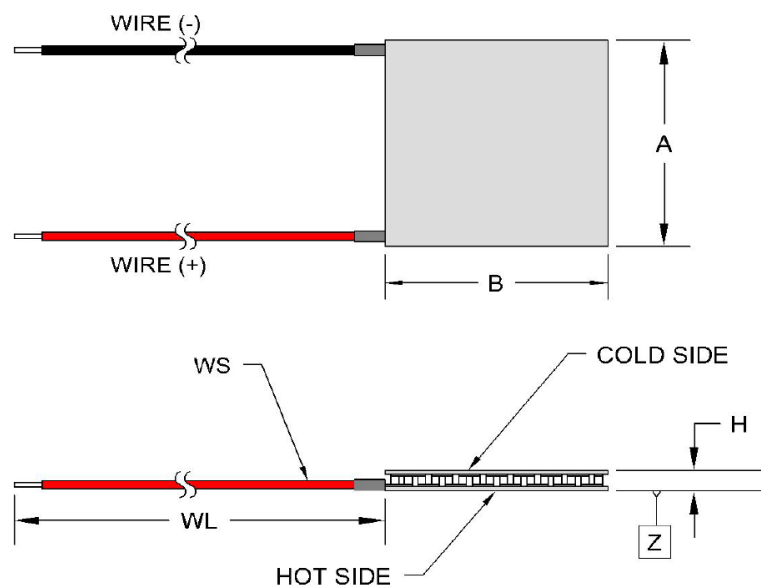
Model number: TEC1-12708:

- Dimensions : 40mm x 40mm x 3.75mm
- Voltage : 12V (Max 15.5V)
- I_{max}: 8A @ 12V
- Q_cMax: 77W
- DT_{max}: > 67°C
- Internal resistance: 1.5 ~ 1.8 Ω (at temp 25C)
- Assembly pressure: 85N/cm²
- Power Cord : 300mm

Model number: TEC1-12710:

- Dimensions : 40mm x 40mm x 3.75mm
- Voltage : 12V (Max 15.5V)
- I_{max}: 10A @ 12V
- Q_cMax: 92W
- DT_{max}: >61°C
- Internal resistance: 1.2 ~ 1.5 Ω (at temp 25C)
- Assembly pressure: 85N/ cm²
- Power Cord : 300mm

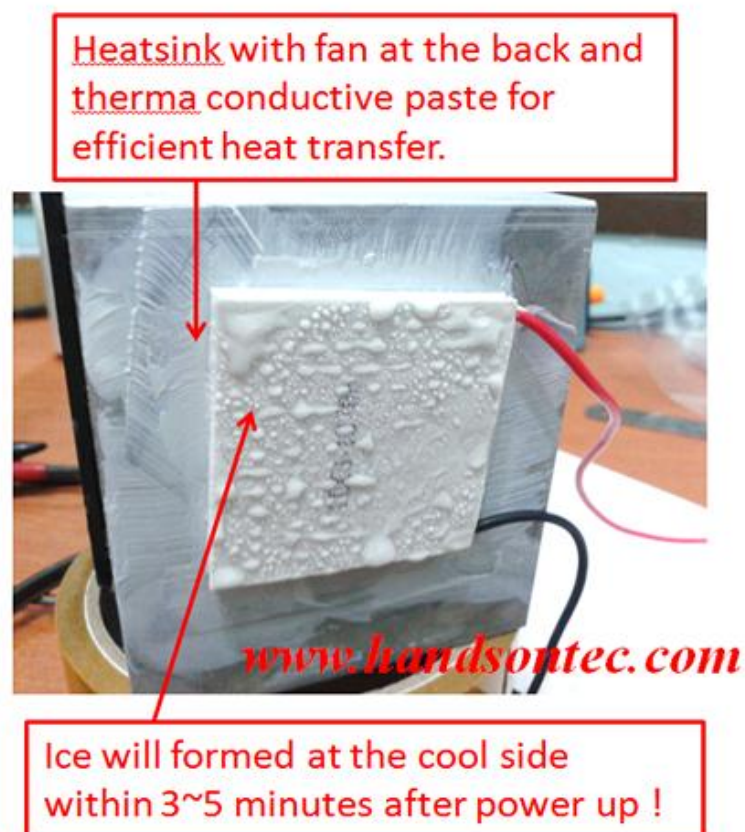
Mechanical Dimensions:



Model	A	B	H
TEC1-127xx	40mm	40mm	3.75mm

Warning: Do not power up the module for prolong period of time without proper heat sink and fan on the hot side as this may cause the whole module overheated and damaged !!

Application Example:





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