TEC Specifications

CP-12706(40,40)

Products Introduction

- The Ceramic Plate(CP)Series of Thermoelectric Modules(TEMs) is considered "the standard" in the thermoelectric industry.
- Provide high performance and high reliability cooling modules for the field of consumer and the field of industrial equipment.
- Provide nearly 200 kinds of models, with different cooling capacity,geometric shapes.
- Provide Rohs standard products for long term use at 80℃ as well as leaded solder product for maximum use temperature at 150℃.
- Provide a fine flatness(±0.025mm) and coarse grind (±0.05mm) for selection.
- Provide high flexibility of silicone (RTV) and high waterproofness epoxy glue (Epoxy) sealed for selection.

Features

- Using 99.99% purity metal.
- Reliable Solid State Operation
- Precise temperature control
- Lapping with0.025mm tolerance
- ΔTmax is 66℃ to 70℃
- Provide customized services

Applications

- Food & Beverage Cooling
- Daily Beauty Equipment
- Portable cooler box
- Chillers (Liquid Cooling)
- Cold and hot air system
- Battery storage cabinet

Performance Specifications

Hot plate temperature Th=	**23**	℃	**50**	℃
Qcmax	52.8	W	56.5	W
Maximum temperature difference (dTmax)	68.0	℃	73.0	℃
Maximum input current (Vmax)	6.2	A	6.2	A
Maximum input voltage （Imax）	14.4	V	16.5	V
Module Resistance	2.07	Ohms	2.38	Ohms
Resistance Tolerance	10%			

Sealing Option

Code	Sealant	Color	Temperature range	Description
NS	Not sealant			
RTV	**RTV**	White	**-60 to 200℃**	**Non-corrosive, silicone adhesive sealant**
EP	Eposy	Black	-50 to 120℃	Low-density synthetic foam epoxy sealant
CS	Customized			Meet customer requirements

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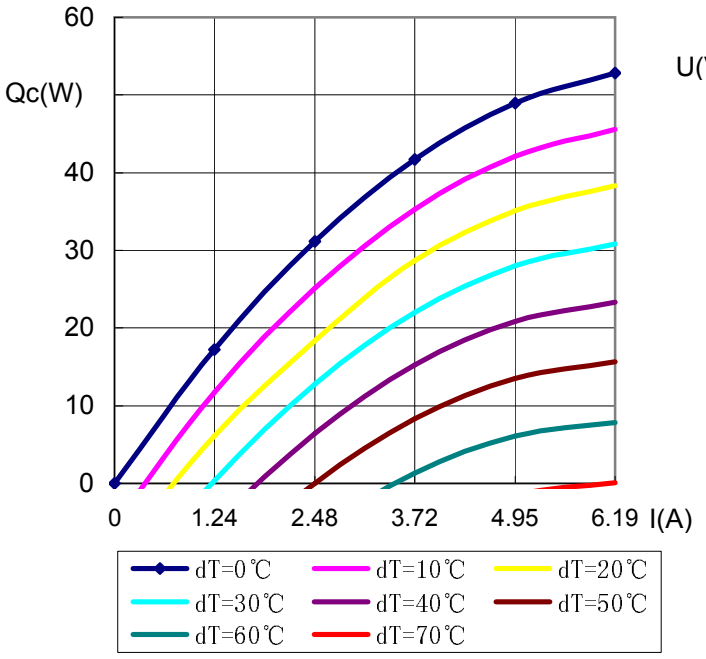
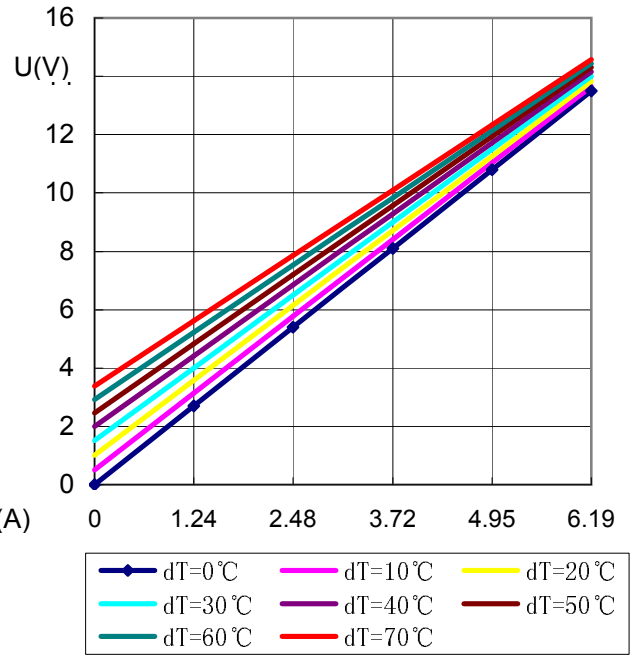
Performance Curves at Th=20℃

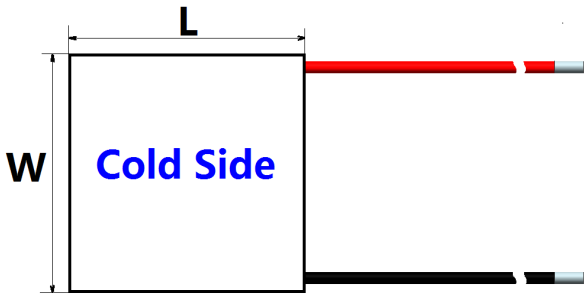
Qc Vs I Curve

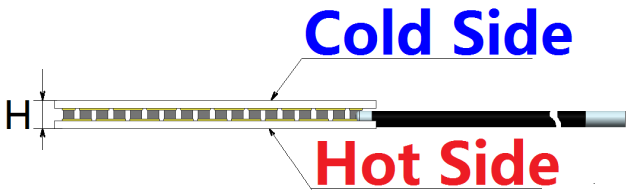


Voltage Vs I Curve



Geometric Characteristics





W(mm)	L(mm)	H(mm)	Flatness(mm)	length(mm)	电线型号(mm)
40	40	3.92	0.05		

OperationTips

Voltage / current should be less than the maximum voltage / current；

Use Direct current power only；

Stored and operated below 120 ℃；

Do not use in temperature cycling application；