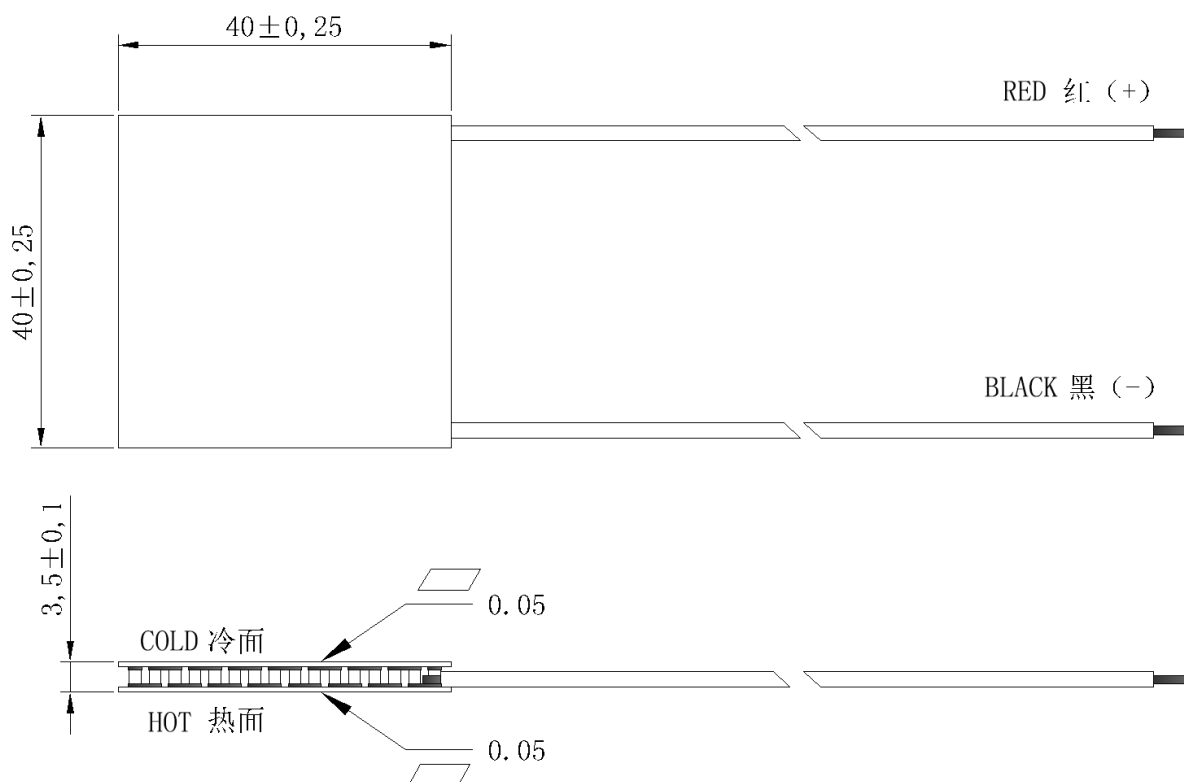


TEC1-06310 Thermoelectric Cooling Module

1、TE Module Drawing:



2、Materials

- 1.Ceramic plate: 96% Al_2O_3 white color、Copper heat sink
- 2.Seal: Sealed with 704 RTV
- 3.Thermoelectric material: Bismuth Telluride
4. Power Wire: 20AWG CSA 1007 L=150mm or require

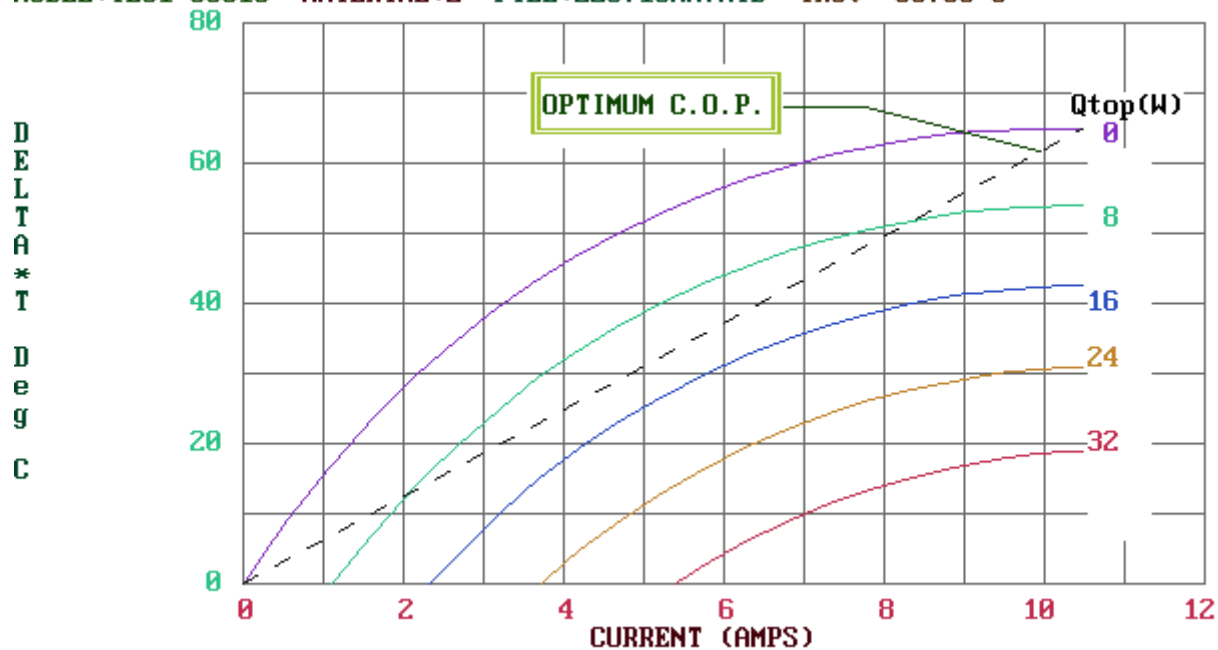
3、TE Module Specifications

Item	Specification		Note
Max Current	Imax	10A	Th=30℃

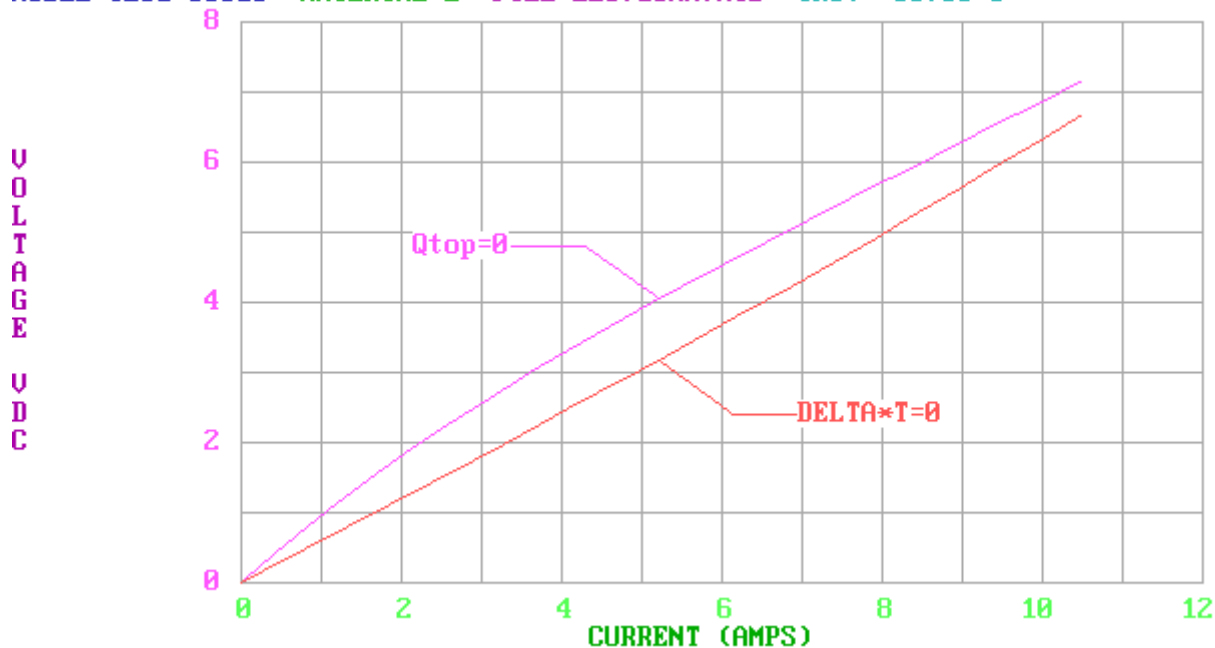
Max Voltage	Vmax	7.4V	Th=30℃
Max Delta T	ΔT_{max}	$\geq 66^{\circ}\text{C}$	QC=0, Th=30℃
Max cooling Power	Qcmax	44.1W	$\Delta T=0^{\circ}\text{C}$, Th=30℃
Working Temp	TR	-50~80℃	

4、Performance Graph

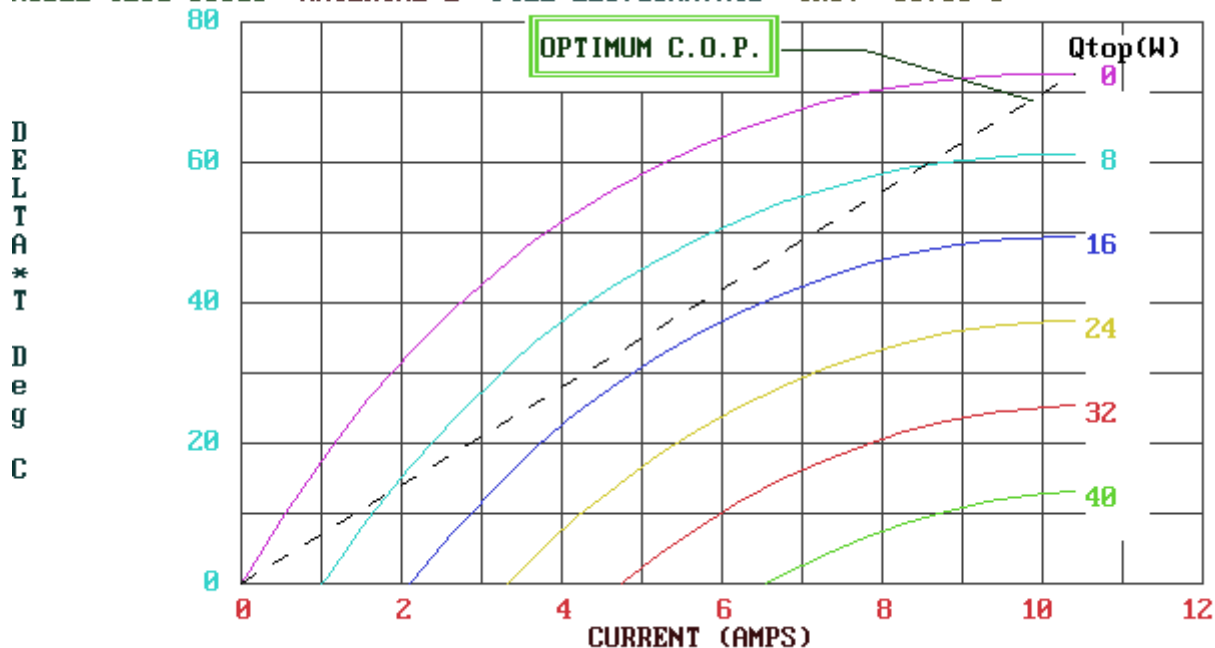
MODEL:TEC1-06310 MATERIAL:2 FILE:220715AA.MTD Thot= 30.00℃



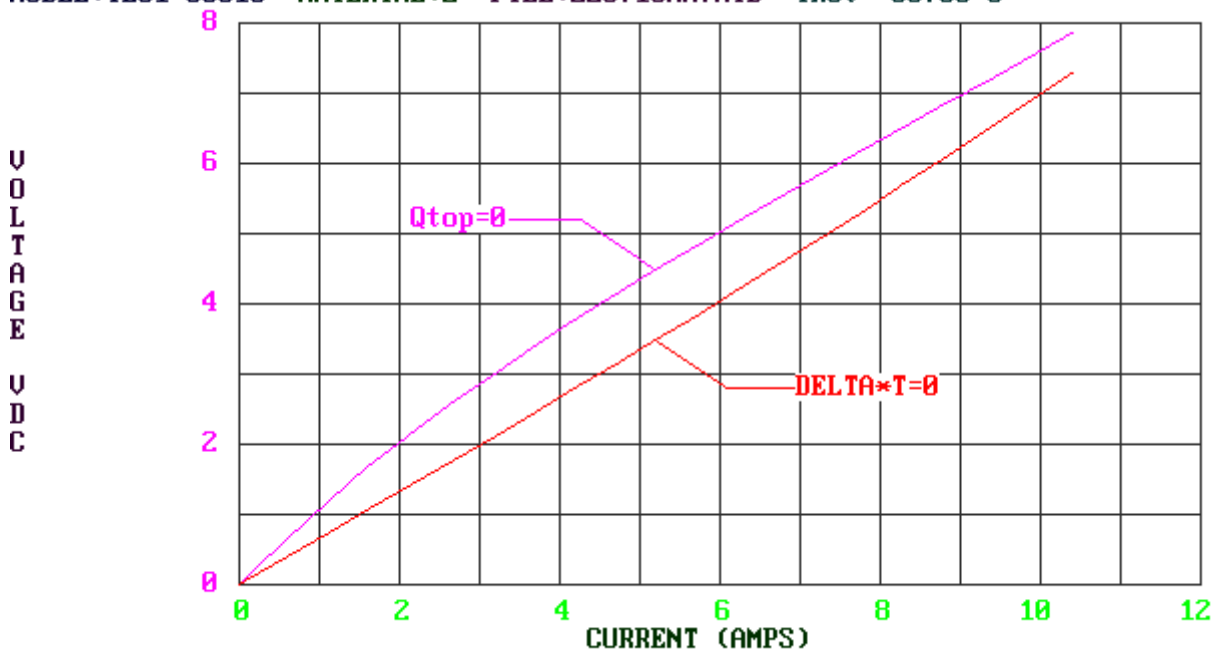
MODEL:TEC1-06310 MATERIAL:2 FILE:220715AA.MTD Thot= 30.00℃



MODEL: TEC1-06310 MATERIAL: 2 FILE: 220715AA.MTD $T_{hot} = 50.00^{\circ}\text{C}$



MODEL: TEC1-06310 MATERIAL: 2 FILE: 220715AA.MTD $T_{hot} = 50.00^{\circ}\text{C}$



5、The correct installation/assemble method.

1. There is cooling fin in one side of the peltier cooling module, and the other side install cooling system, the planeness of the install surface can't over 0.03mm, the surface need to be deburred and clean the dirty.
2. The module, cooling fin and cooling system should contact with each other very well, the touch surface need cover with heat-conducting glue.



3. Locate the module, apply the force evenly, make sure not over-force, avoid crushing the module.

6、 The correct working condition.

1. Use direct-current main, the voltage do not over the nominal voltage. The power supply ripple under 10%.

2. The electric current can't over rated current.

3. Do not give a backward voltage suddenly when the module is working (after 5 min can do this)

4. Not into the water inside of the module.

5. The humidity around the module do not over 80%.

Approver	Checker	Maker
		Kang