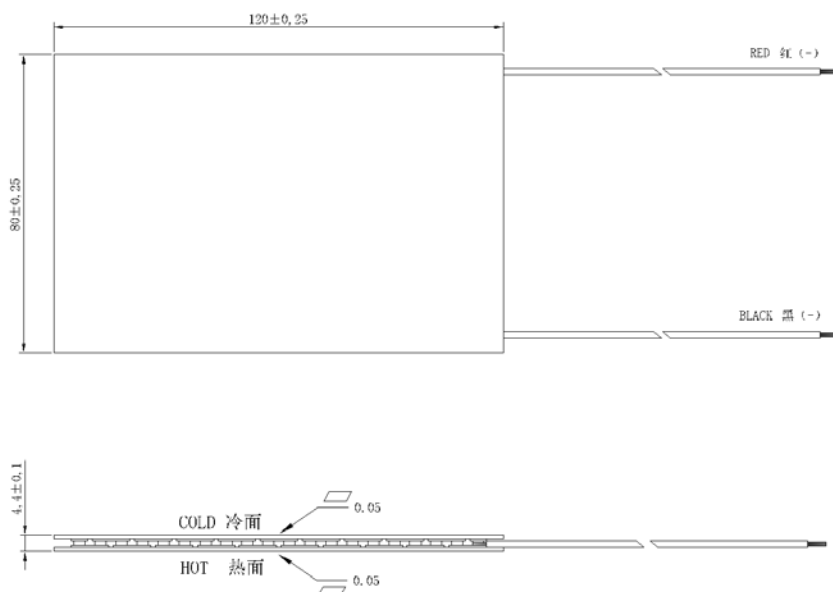


TEC1-13936 Thermoelectric Cooling Module

1、TE Module Drawing:



2、Materials

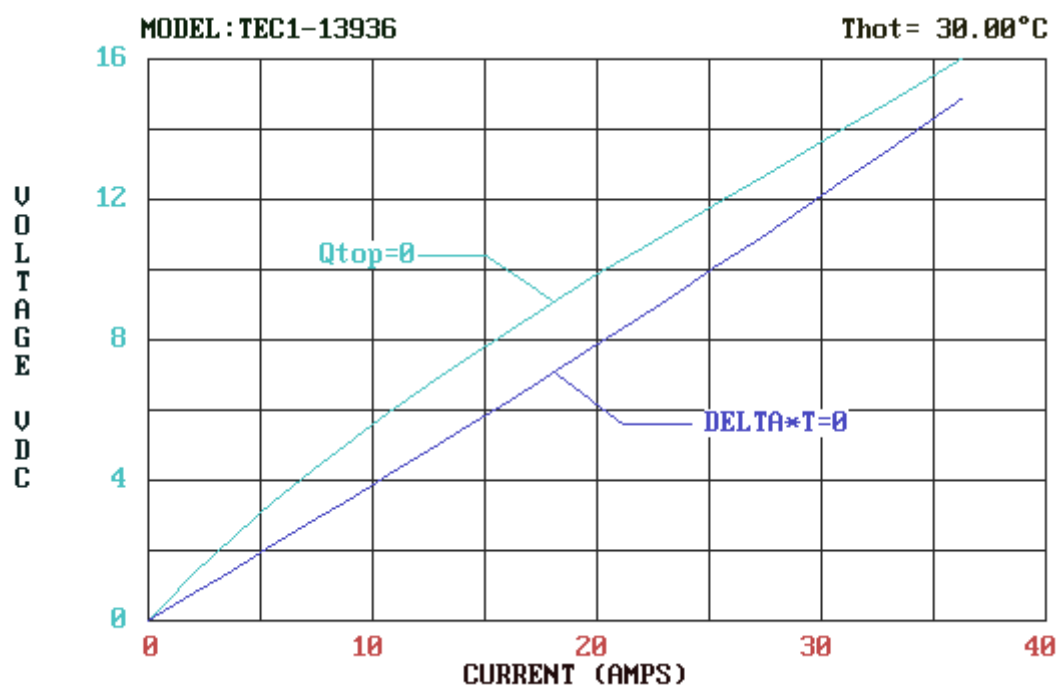
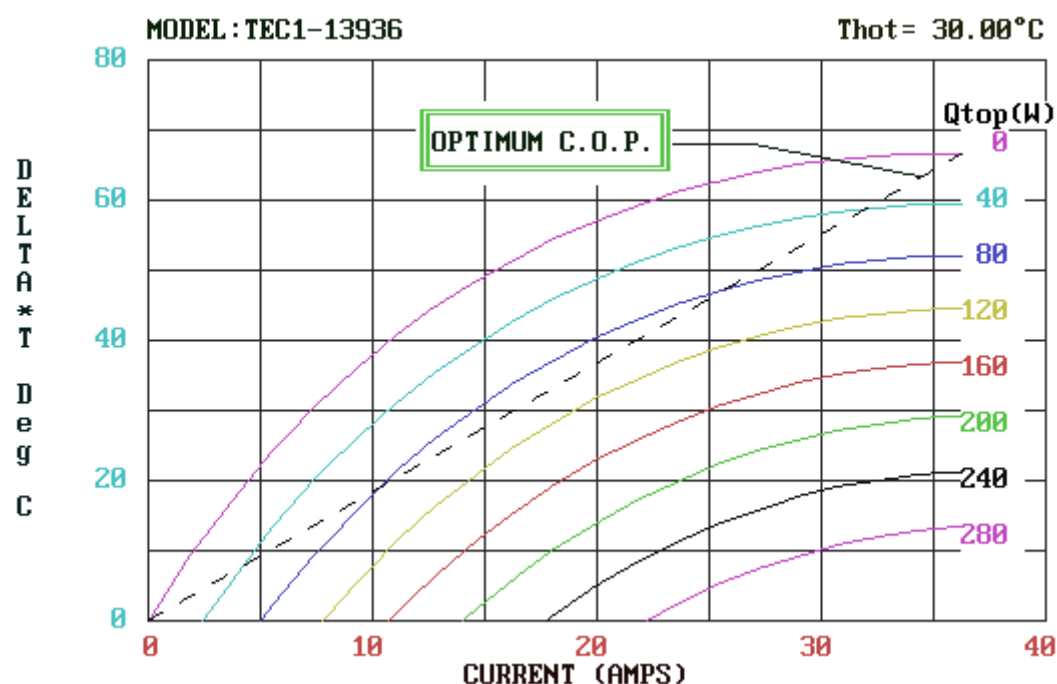
- 1.Ceramic plate: 96% Al_2O_3 white color
- 2.Seal: Sealed with 704 RTV
- 3.Thermoelectric material: Bismuth Telluride
4. Power Wire: 14AWG CSA 1007 L=150mm or require

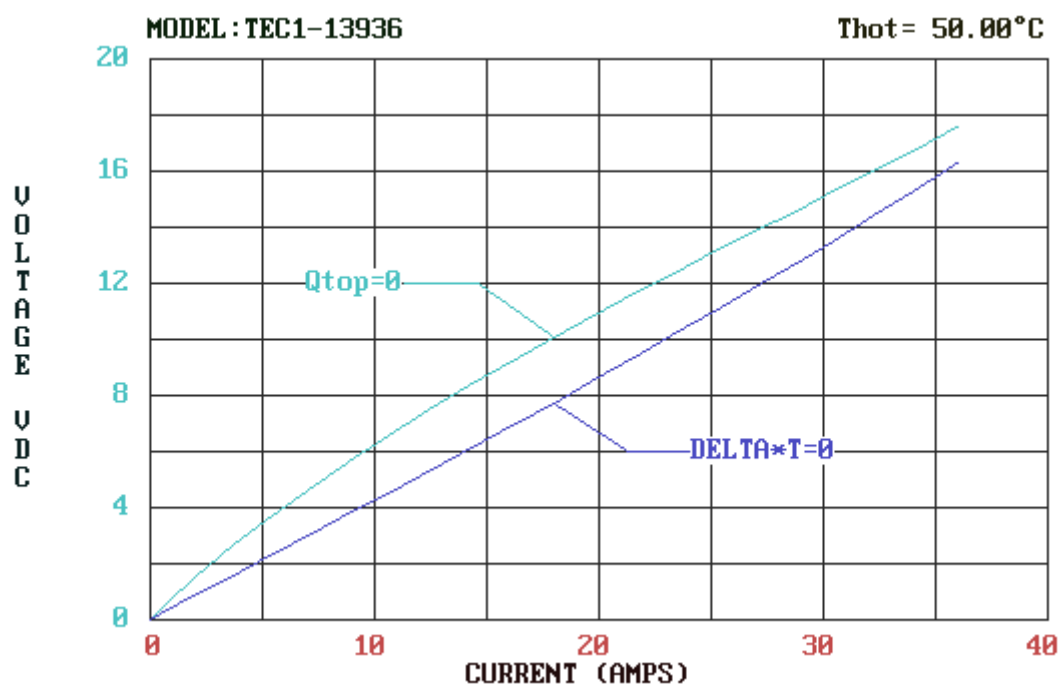
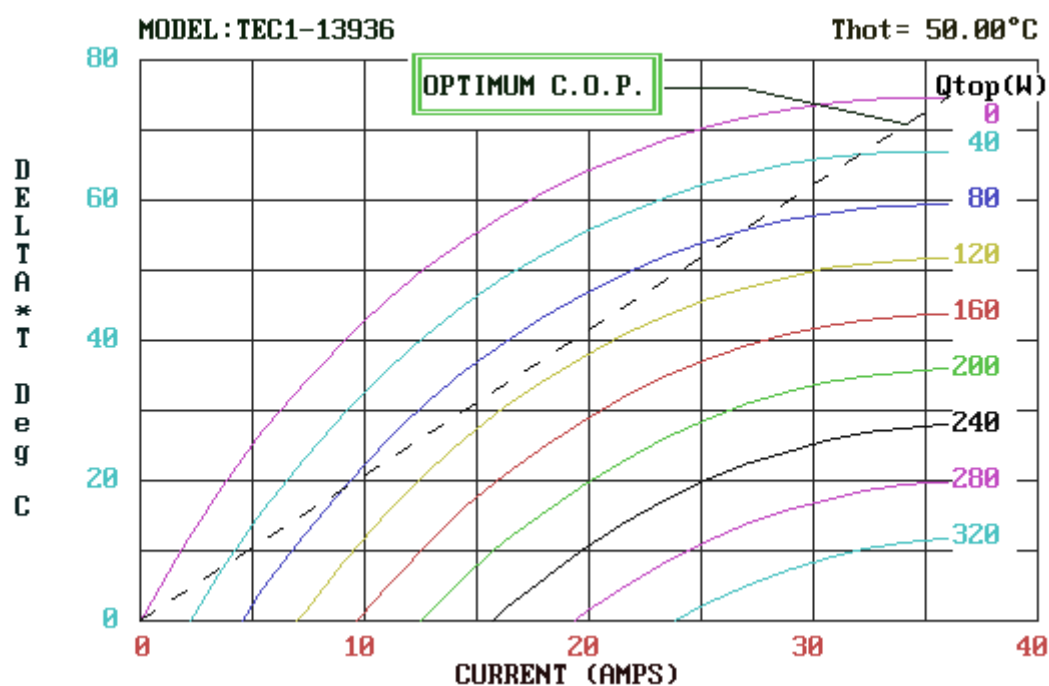
3、TE Module Specifications

Item	Specification		Note
Max Current	I _{max}	36A	Th=30℃
Max Voltage	V _{max}	16.4V	Th=30℃
Max Delta T	ΔT _{max}	≥66℃	QC=0, Th=30℃
Max cooling Power	Q _{cmax}	350.3W	ΔT=0℃, Th=30℃
Working Temp	TR	-50~80℃	



4、Performance Graph







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
	Yang	Kang