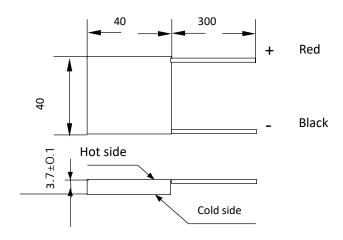


## TEC1—12706 Semiconductor Refrigeration Chip Technical Specifications

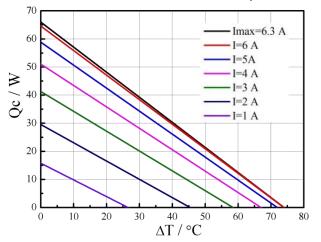
## 1. Overall dimensions

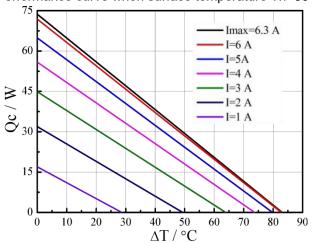


## 2. Basic electrical performance indicators

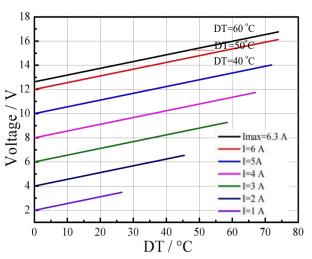
Project	Characteristic value		Condition
Maximum current	Imax	6A	Th=25℃
Maximum voltage	Vmax	15.4V	Th=25℃
Maximum temperature difference	ΔTmax	≥65℃	Q <sub>C</sub> =0, T <sub>h</sub> =25℃
Maximum cooling power	Qcmax	51.5W	ΔT=0℃, Th=25℃
Temperature range	TR	-50~138 ℃	
Product internal resistance	R	1.9~2.2Ω	
Power cord	20AWG, length 300mm, or as per customer's requirements		

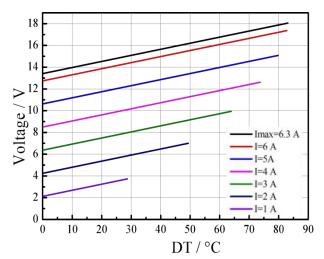
Performance curve when hot surface temperature Th=27 $^{\circ}$ C Performance curve when surface temperature Th=50 $^{\circ}$ C



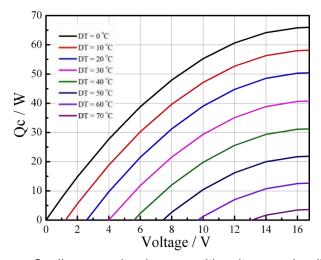


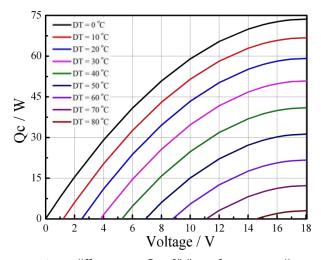
Cooling power changes with temperature difference under different currents Qc-f(DT) performance diagram)





Performance diagram of voltage changing with temperature difference under different currents V=f(DT)

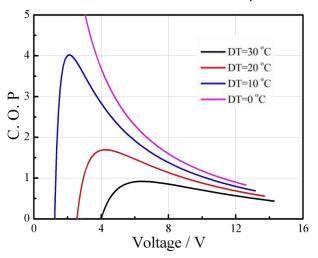


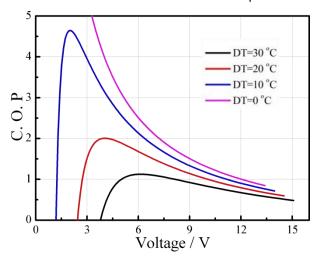


Cooling capacity changes with voltage under different temperature differences Qc=f(V) performance diagram

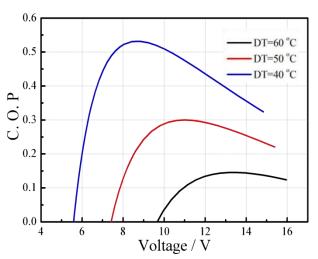
Performance curve when hot suface temperature Th=27°C

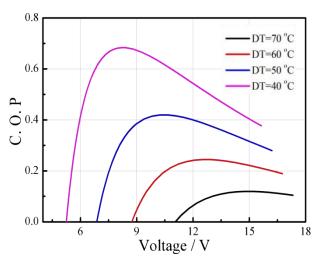
Performance curve when hot surface temperature Th=50°C





Temperature difference range 0~30 °C. Cooling coefficient changes with voltage COP = f(V) performance diagram.





Temperature difference range 40~60/70 °C. Cooling coefficient changes with voltage COP = f(V) performance diagram.