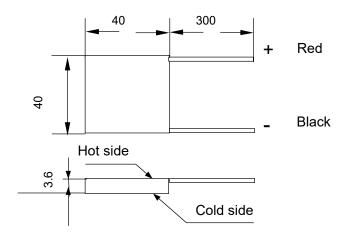
TEC1-12704 Technical Specifications for Semiconductor Refrigeration Chips

1. Overall dimensions

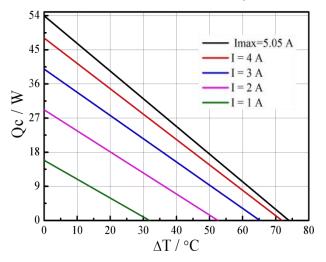


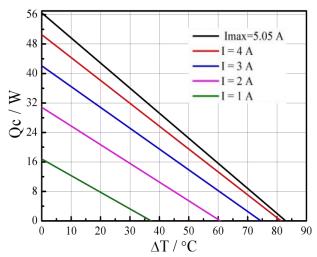
2. Basic electrical performance indicators

Project		Characteristic value		Condition
Maximur	m current	lmax	4A	Th=25°C
Maximum voltage		Vmax	15.4V	T _h =25°C
Maximur	m temperature difference	ΔTmax	≥68°C	Q _C =0, T _h =25°C
Maximur	m cooling power	Qcmax	35W	ΔT=0℃, Th=25°C
Temperature range		TR	-50~200°C	
Product internal resistance		R	2.7±0.2Ω	ΔT=0°C, Th=25°C
Power co	ord	20AWG, length 300mm, or as per customer's requirements.		

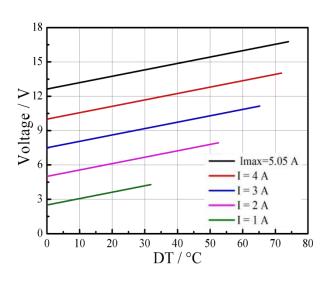
TEC1-12704 RefigerationDeviceRelationshipCurve

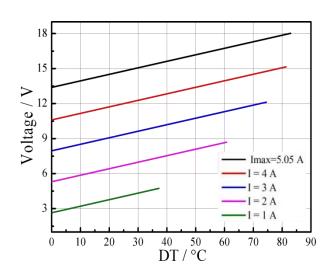
Performance curve when hot surface temperature Th=27°C Performance curve when hot surface temperature Th=50°C



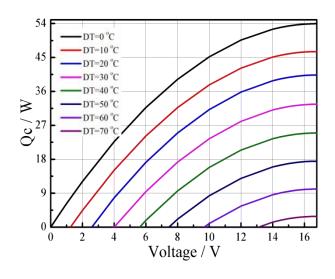


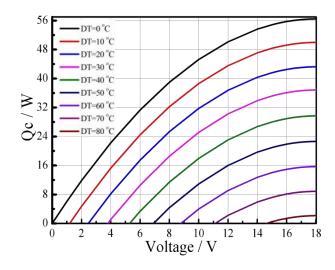
Performance diagram of cooling power changes with temperature difference under different currents Qc=f(DT)





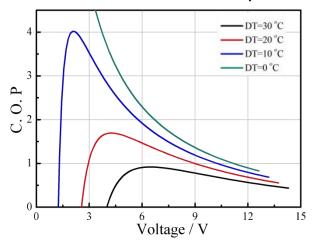
Performance diagram of voltage changing with temperature difference under different currents V=f(DT)

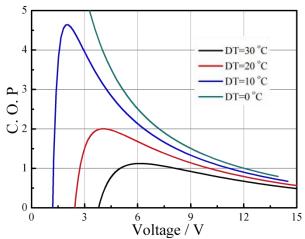




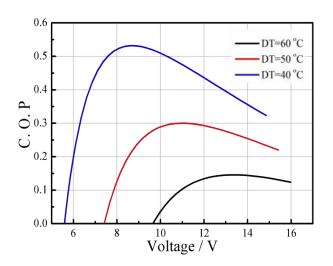
Performance diagram of cooling capacity changes with voltage under different temperature differences Qc=f(V)

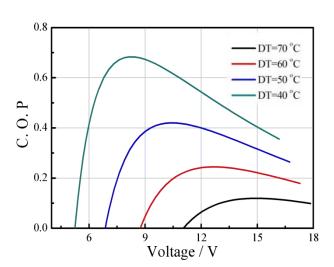
Performance curve when hot surface temperature Th=27°C Performance curve when hot surface temperature Th=50°C





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





Performance diagram of temperature difference range 40~60/70°C. Refrigeration coefficient changes with voltage COP=f(V)