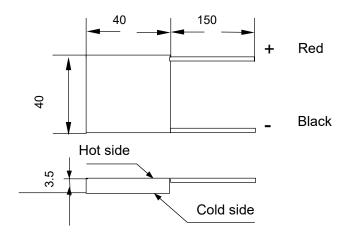
TEC1-12708 Technical Specifications for Semiconductor Refrigeration Chips

1. Overall dimensions

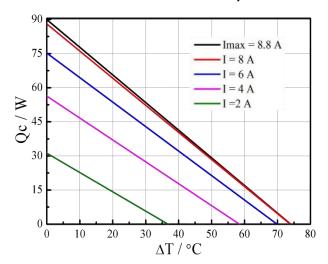


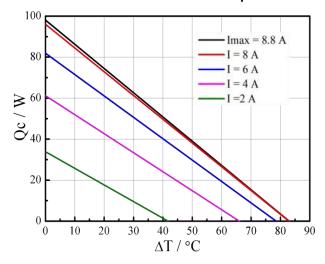
2. Basic electrical performance indicators

•	Project	Characteristic value		Condition
	Maximum current	lmax	8.0A	Th=25°C
	Maximum voltage	Vmax	15.4V	T _h =25°C
	Maximum temperature difference	ΔTmax	≥66°C	Q _C =0, T _h =25°C
	Maximum cooling power	Qcmax	71.2W	ΔT=0°C, Th=25°C
	Temperature range	TR	-50~150°C	
	Product internal resistance	R	1.4±0.1Ω	ΔT=0°C, Th=25°C
	Power cord	20AWG silicone soft wire, length 150mm; or as per customer requirements		
	Solder specifications	227°C T		
	Sealing requirements	White silicone sealant 704 Foam box shockproof + corrugated box Cold printing		
	Packaging requirements			
	Printing requirements			

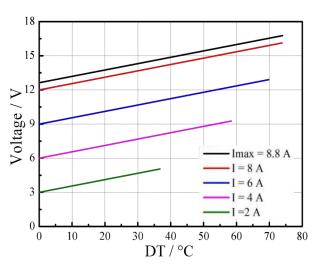
Performance curve at hot surface temperature Th=27°C

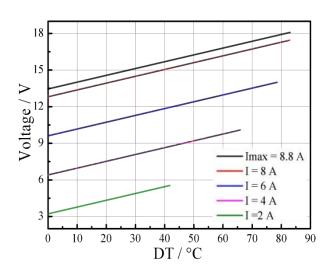
Performance curve at hot surface temperature Th=50°C



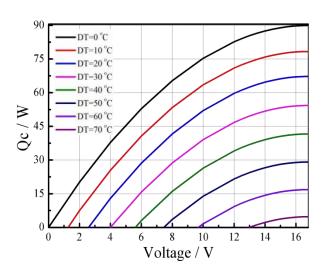


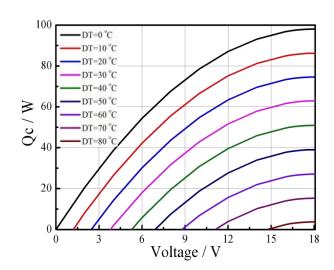
Performance diagram of cooling power changes with temperature difference under different currents Qc=f(DT)





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

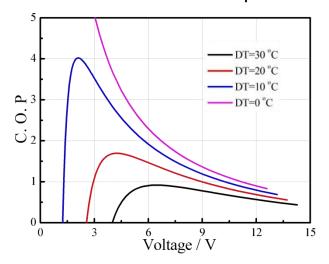


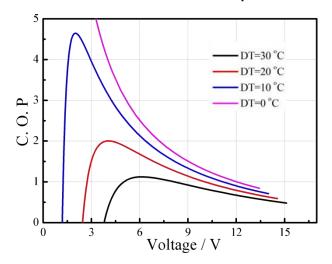


Performance diagram of cooling capacity changes with voltage under different temperature differences Qc=f(V)

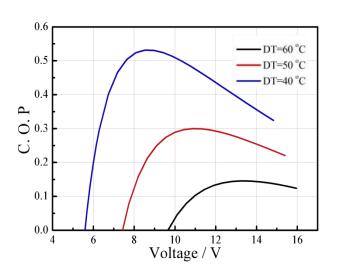
TEC1-12708 Refrigeration Device Relationship Curve

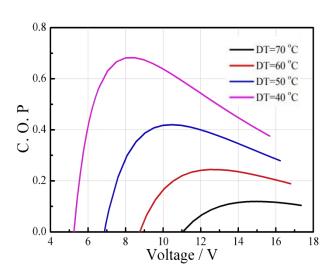
Performance curve at hot surface temperature Th=27°C Performance curve at hot surface temperature Th=50°C





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. Cooling coefficient changes with voltage COP=f(V)