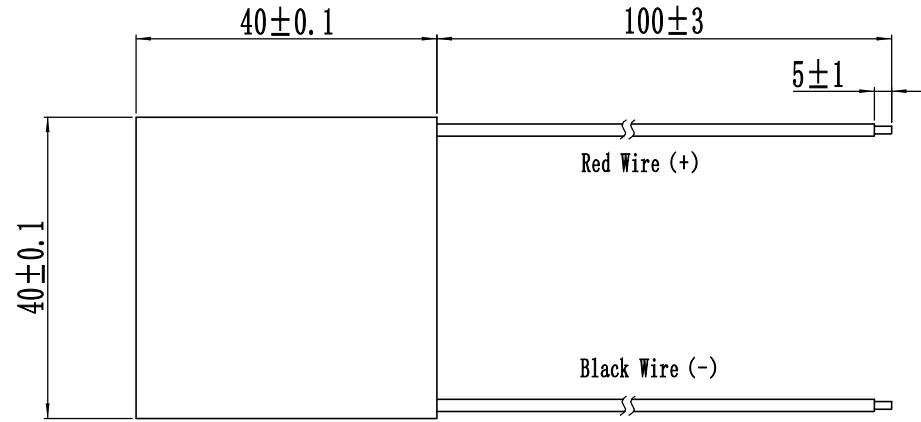
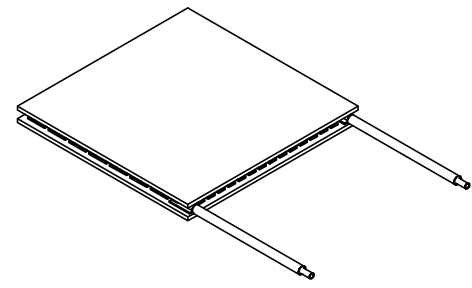
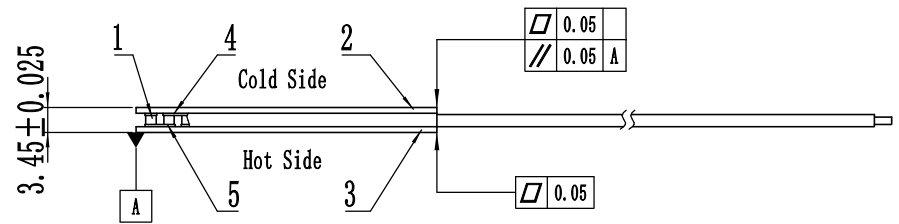


REVISION			
LTR	DESCRIPTION	DATE	APP



1. The resistance of the module shall be within 1.35~1.65 ohms at an ambient temperature of 25 degrees Celsius.
2. The lead wire:#20 AWG, the end of the wires shall be pre-tinned.
3. The top side shall be the cold side if connecting (+) postto the positive pole of power.
4. Module is sealed by 704 silicone rubber.



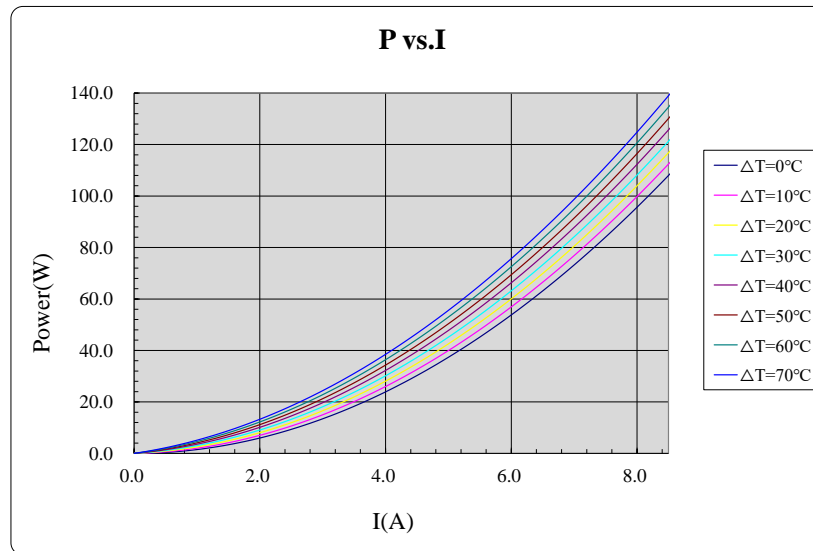
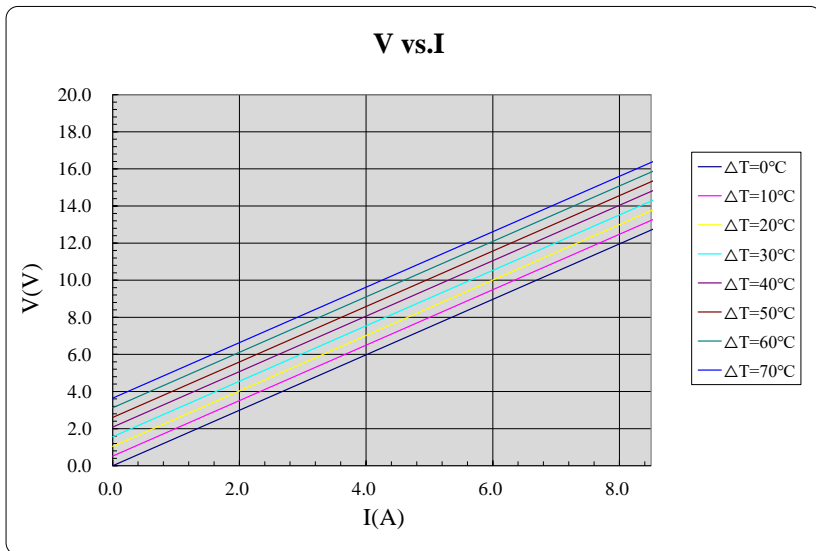
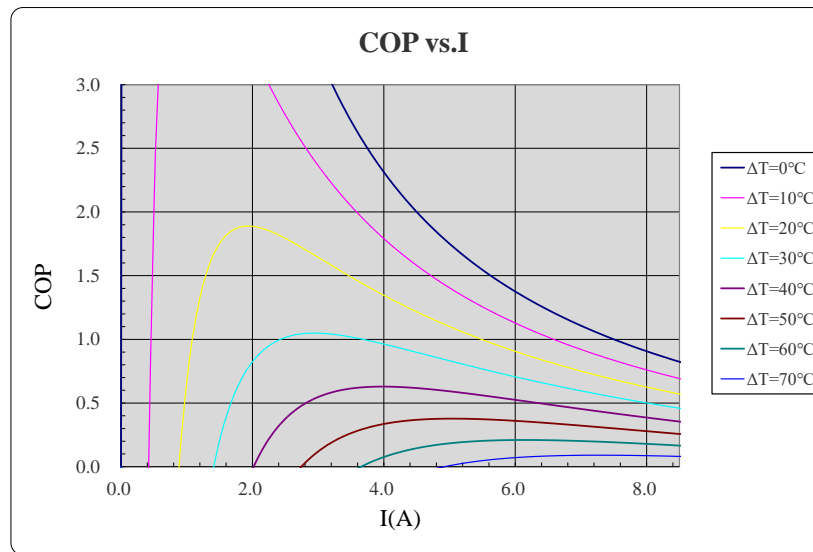
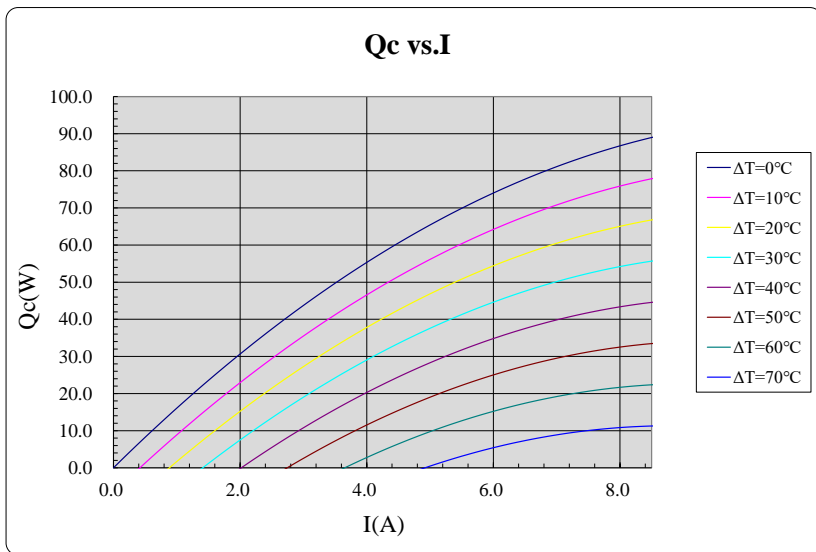
No.	Item Name	Material	Remarks
1	Thermoelement	BiTe	127 Pairs
2	Top Ceramics (cold)	Al ₂ O ₃	
3	Bottom Ceramics (hot)	Al ₂ O ₃	
4	Bond Pad	Cu	
5	Solder	SnSb	

Item	Value	Conditions
I _{max}	8.4A	Q _c =0, DT=DT _{max} , Th=50°C
V _{max}	16.8V	Q _c =0, I=I _{max} , Th=50°C
DT _{max}	78°C	Q _c =0, I=I _{max} , Th=50°C
Q _{cmax}	88W	I=I _{max} , DT=0, Th=50°C

					MODEL
PART NAME		TEC1-12708A			
PART NO.		TEC1-12708A-121-4012		APPROVED	
TOL. ±		1 PLC 2 PLC ANGLE	UNIT	mm	CHECKED
MATERIAL		BiTe		SCALE	1:1
FINISH		DATE		2023.04.28	REV
THE 3RD PROJECTION		DWG. NO.		03.G3	SHEET. NO.

Th=50°C

TEC1-12708A-C06



Th: Temperature of heat radiating side
Qc: Heat absorbed (pumped)
I: Input current
DT: Temperature difference between heat radiating side and heat absorbing side

V: Input voltage
P: Input electrical power
COP: Coefficient of performance
In Air

2023.08.09