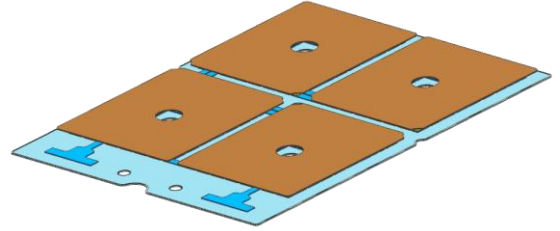


THERMOELECTRIC GENERATOR

MODEL NO :

FEATURES & CHARACTERISTICS

- 47.5W Output TEG Module
- Large Area Module(4-Separated Hot side structure)
- 4 Screw Hole for Mounting



1.SPECIFICATIONS

Performance Parameters	Min	Typ	Max	Unit	Conditions
Matched Load Output Power		47.5		W	Th=250°C,Tc=30°C
Matched Load Resistance		4.38		Ω	Th=250°C,Tc=30°C
Open Circuit Voltage		28.6		V	Th=250°C,Tc=30°C
Matched Load Output Current		3.3		A	Th=250°C,Tc=30°C
Matched Load Output Voltage		14.45		V	Th=250°C,Tc=30°C
Internal AC Resistance	1.76	2.2	2.64	Ω	w/1KHz Ac Current @27°C
Max. Operation Temperature				250	°C Hot Side Plate
				180	°C Cold Side Plate
Max. Assembly Compression				130	kgf

2.MATERIALS

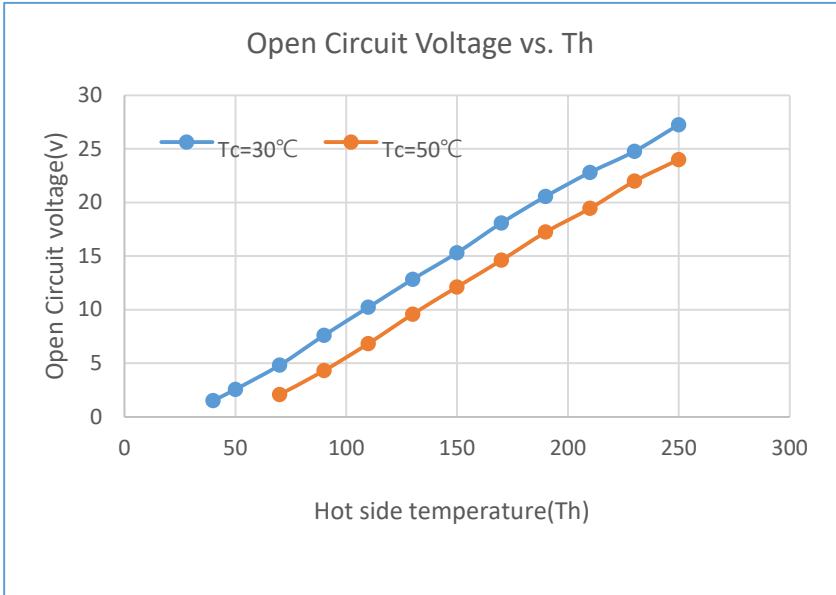
Item	Material	Thickness	Remarks
Substrate Plate (기판)	CU (C1100)	0.3mm	
CU Pattern Plate (전극)	CU (C1100)	0.3mm	Ni-Ag Plated
Insulating Varnish	Ceramic	37μm	
Adhesive Glue	TC2035	25μm	Between CU pattern plate and Hot/Cold Side Substrate
Solder	Sn+Ag+Cu		217~220°C Melting point Between LEG and Hot/Cold Side Substrate
Sealer	Sealant		-40~250°C Between Hot and Cold Side Plates

THERMOELECTRIC GENERATOR

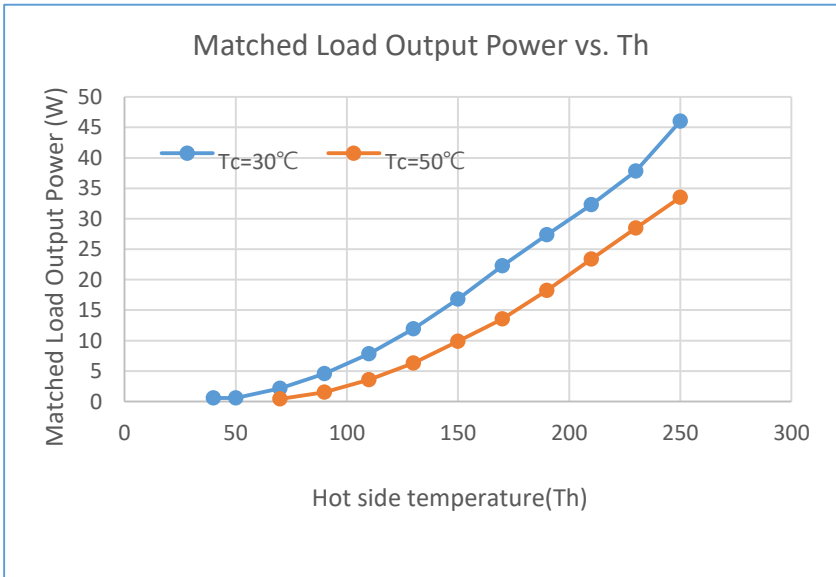
MODEL NO :

3.PERFORMANCE GRAPHS

3-1. Open Circuit Voltage vs. Th



3-2. Matched Load Output power vs. Th

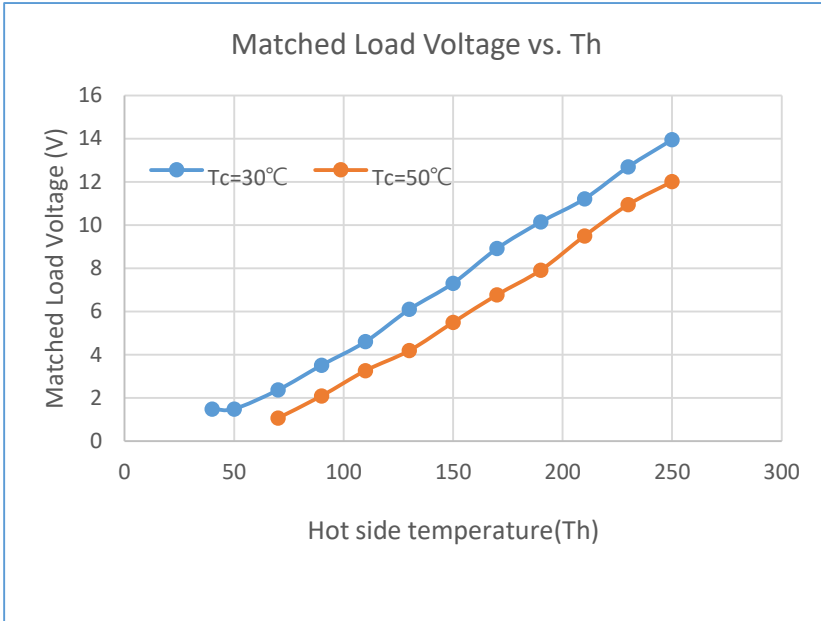


THERMOELECTRIC GENERATOR

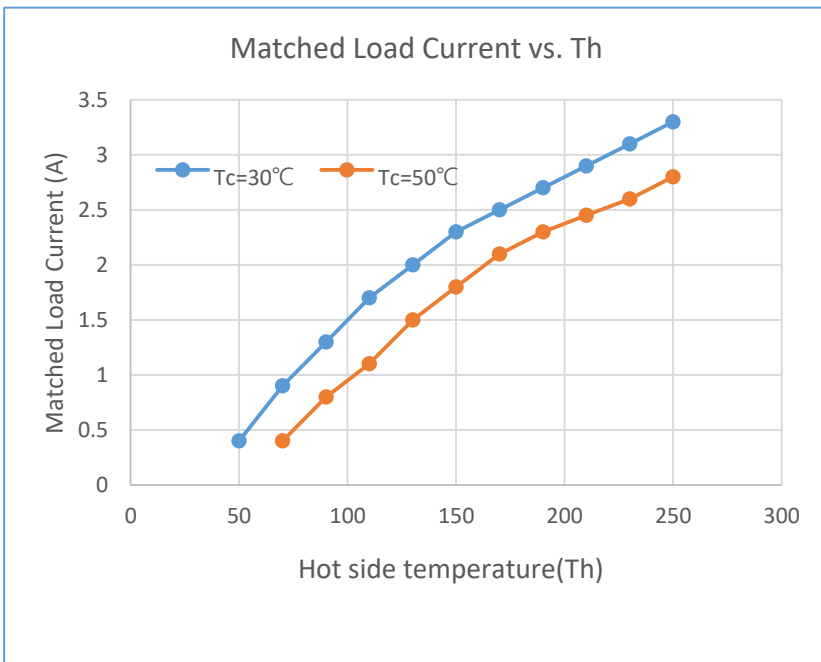
MODEL NO :

3.PERFORMANCE GRAPHS

3-3. Matched Load Voltage vs. Th



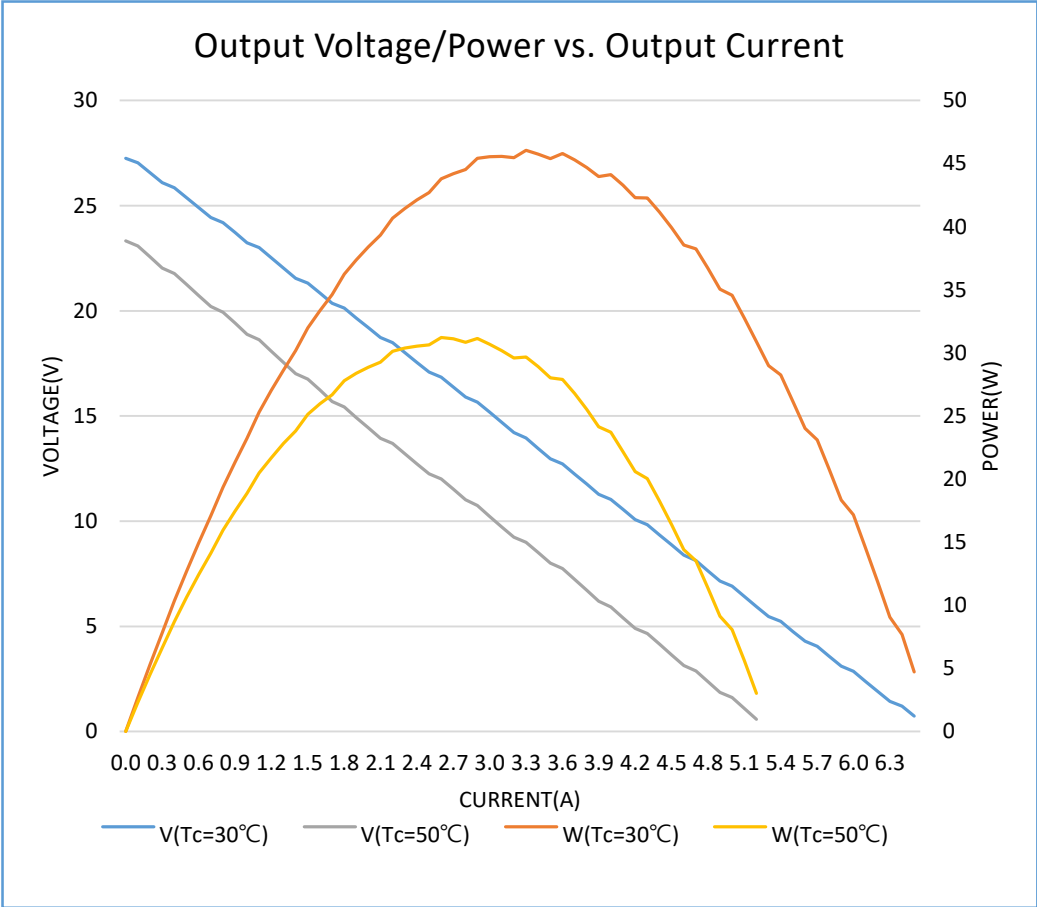
3-4. Matched Load Current vs. Th



THERMOELECTRIC GENERATOR MODEL NO :

3.PERFORMANCE GRAPHS

3-5. Matched Load Voltage vs. Th

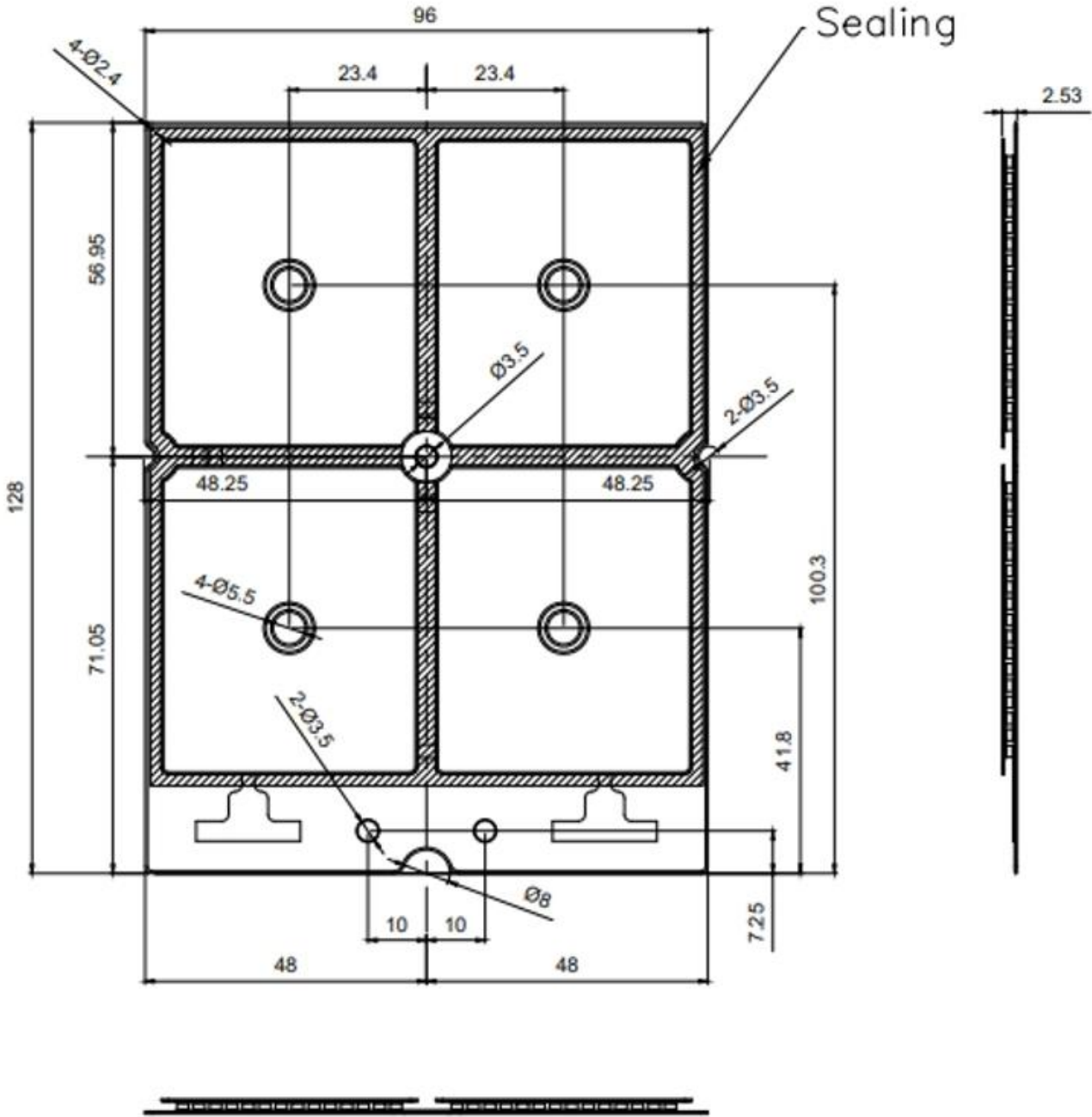


THERMOELECTRIC GENERATOR

MODEL NO :

4. Mechanical Dimension & Drawing

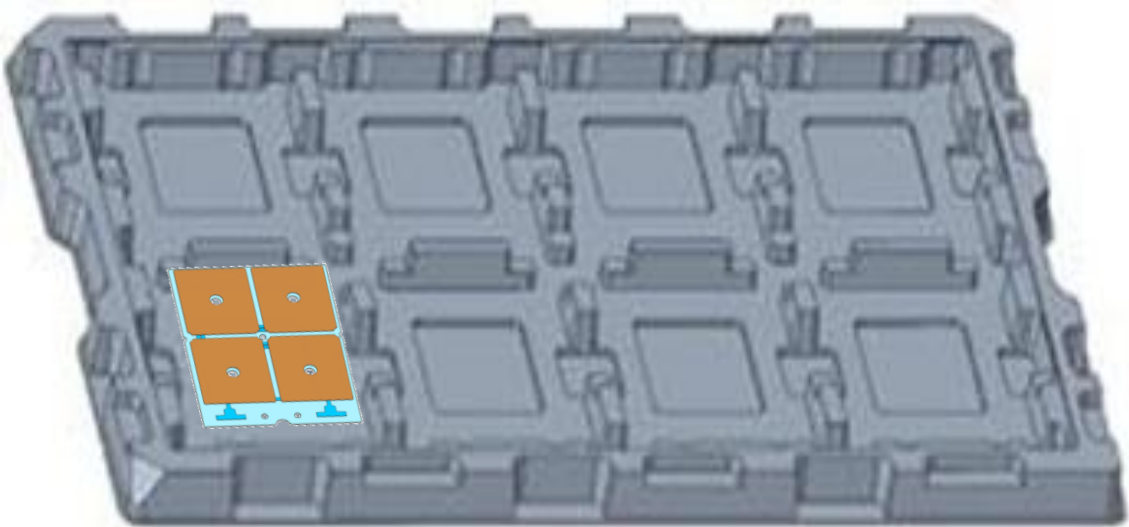
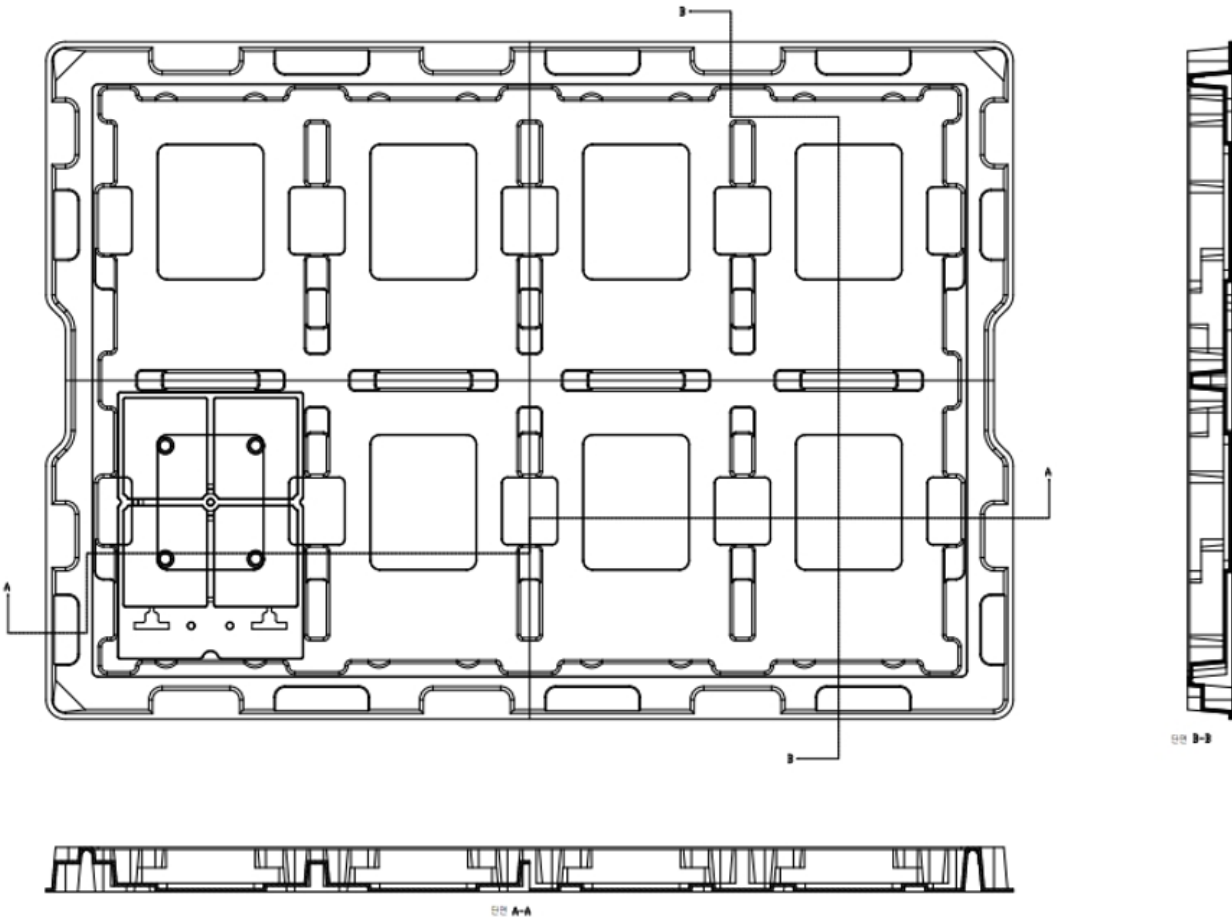
Item	Dimension	Remarks
Cold side	96mm x 128mm	
Hot side	43.7mm x 52.6mm	
Height	2.53 mm	



THERMOELECTRIC GENERATOR

MODEL NO :

5.Packing Tray



THERMOELECTRIC GENERATOR

MODEL NO :

REVISION HISTORY

Version	Date	Description
1.0	2025.07.10	Initial release