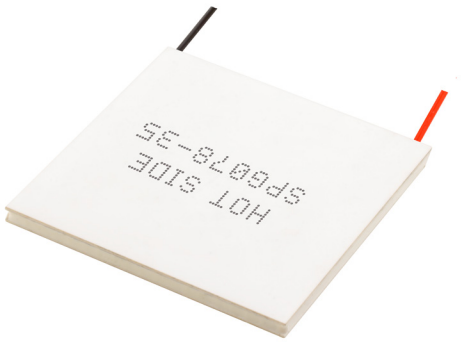
CUI Devices is now Same Sky! Learn More

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MODEL: SPG078-35 | DESCRIPTION: THERMOELECTRIC GENERATOR

FEATURES

- TEG module
- 7.8 W output
- up to 300°C continuous maximum hot side temp
- silicone sealed
- graphite pad option available



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
open circuit voltage	at Th = 300°C, Tc = 30°C		8.30		V
matched load resistance	at Th = 300°C, Tc = 30°C		2.20		Ω
matched load output voltage	at Th = 300°C, Tc = 30°C		4.20		V
matched load output current	at Th = 300°C, Tc = 30°C		1.86		A
matched load output power	at Th = 300°C, Tc = 30°C		7.80		W
heat flow across module			132		W
heat flow density			10.8		W/cm²
ac resistance	at 27 °C, 1000 Hz	1.1		1.5	Ω
solder melting temperature	cold side: SnAgSn solder hot side: no solder, aluminum bonding	217			°C
hot side plate		-60		300	°C
cold side plate		-60		30	°C
assembly compression				1.36	MPa
mounting torque per screw	screw diameter / # of screws: 4 mm / 2		0.098		kg-m
RoHS	yes				

GRAPHITE THERMAL INTERFACE MATERIAL

parameter	conditions/description	min	typ	max	units
thermal impedance	at 200 kPa at 700 kPa		0.59 0.30		K-cm²/W K-cm²/W
thermal conductivity	at 700 kPa (through-plane/in-plane)		10/150		W/m-K
thickness		0.114	0.127	0.140	mm
flammability rating	UL94V-0				

Note: 1. Remove paper over adhesive before installing.

PART NUMBER KEY

SPG078 - 35 **X**

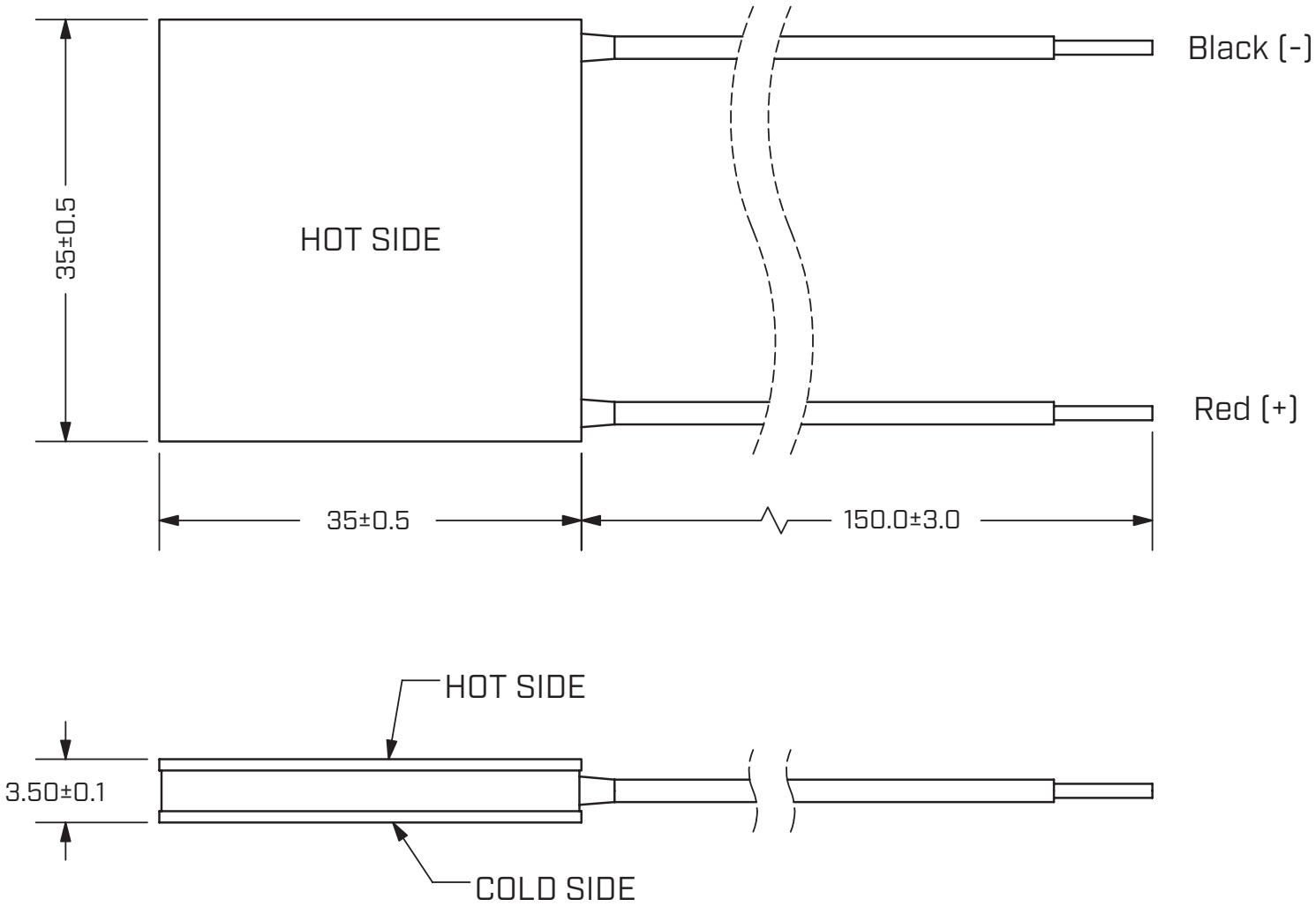
Base Number

Graphite Sheet:
"blank" = not included
G = included

MECHANICAL DRAWING

units: mm

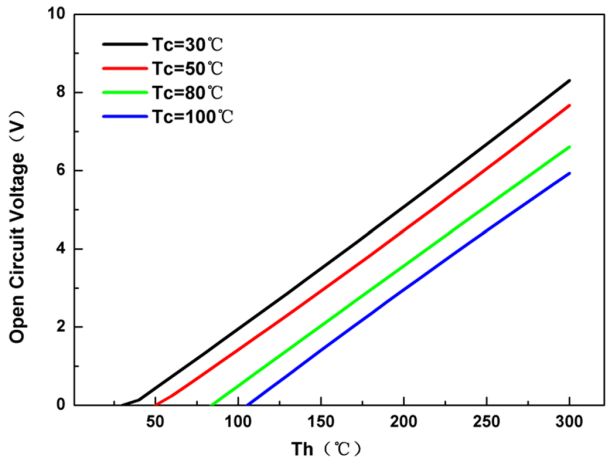
	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads	UL1726 teflon coated 22 AWG	
sealer	BG SIDUN 3.0 (between cold and hot side plates)	
marking	P/N & "HOT SIDE" printed on hot side surface	
graphite pad[2] (optional)	HITHERM™ HT-1205	



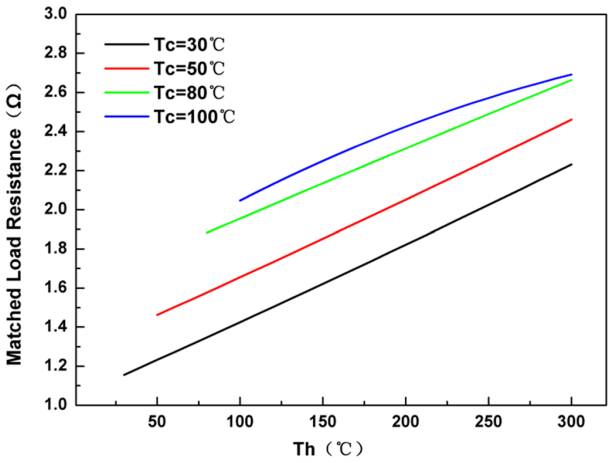
Notes: 2. Graphite pad option overall thickness is 3.754 ± 0.1254 mm.

PERFORMANCE CURVES

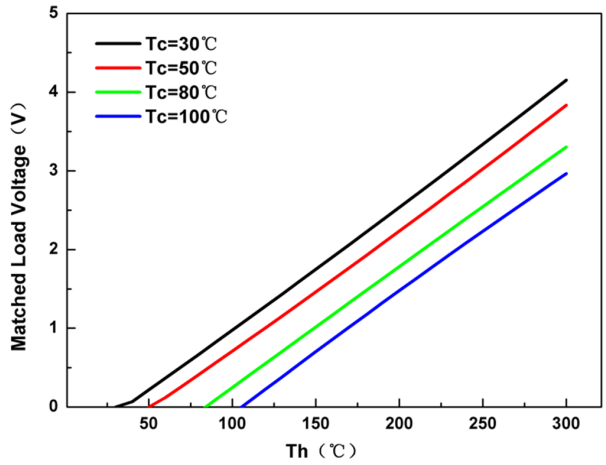
Open Circuit Voltage Vs. Th



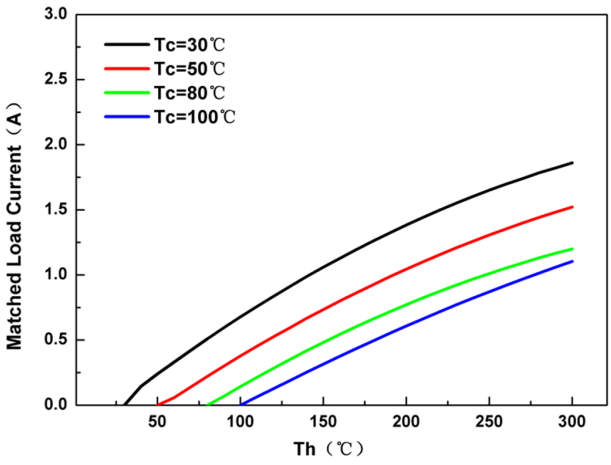
Matched Load Resistance Vs. Th



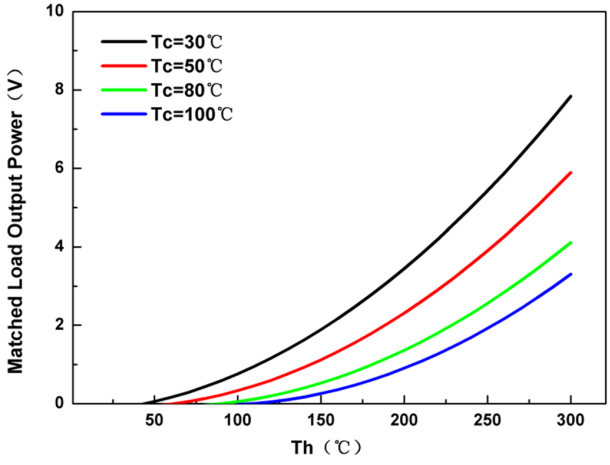
Matched Load Voltage Vs. Th



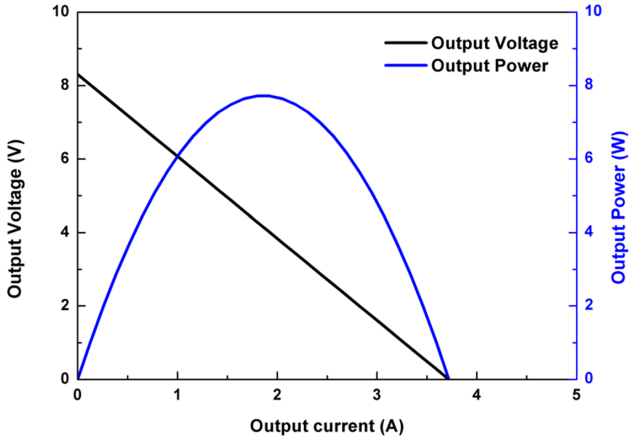
Matched Load Current Vs. Th



Matched Load Output Power Vs. Th



Output Voltage/Power Vs. Output Current (Th=300°C, Tc= 30°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	05/20/2026

The revision history provided is for informational purposes only and is believed to be accurate.

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Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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