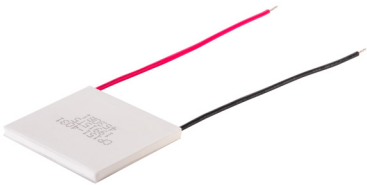


MODEL: CP151-4031 | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure
- silicone sealed
- wide ΔT max
- low profile
- precise temperature control
- solid state construction



SPECIFICATIONS

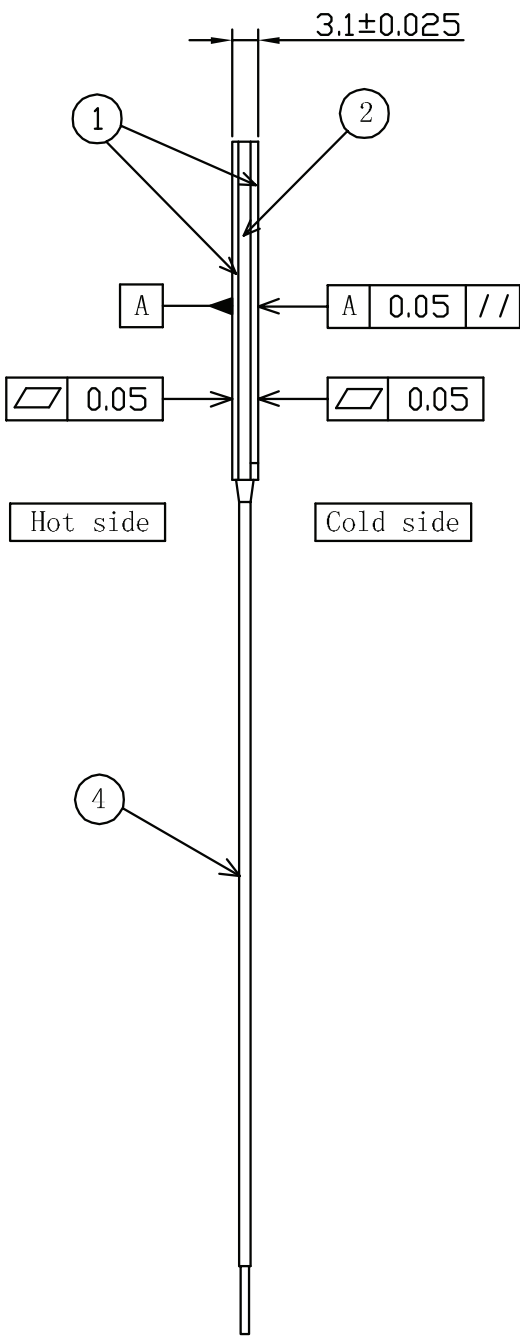
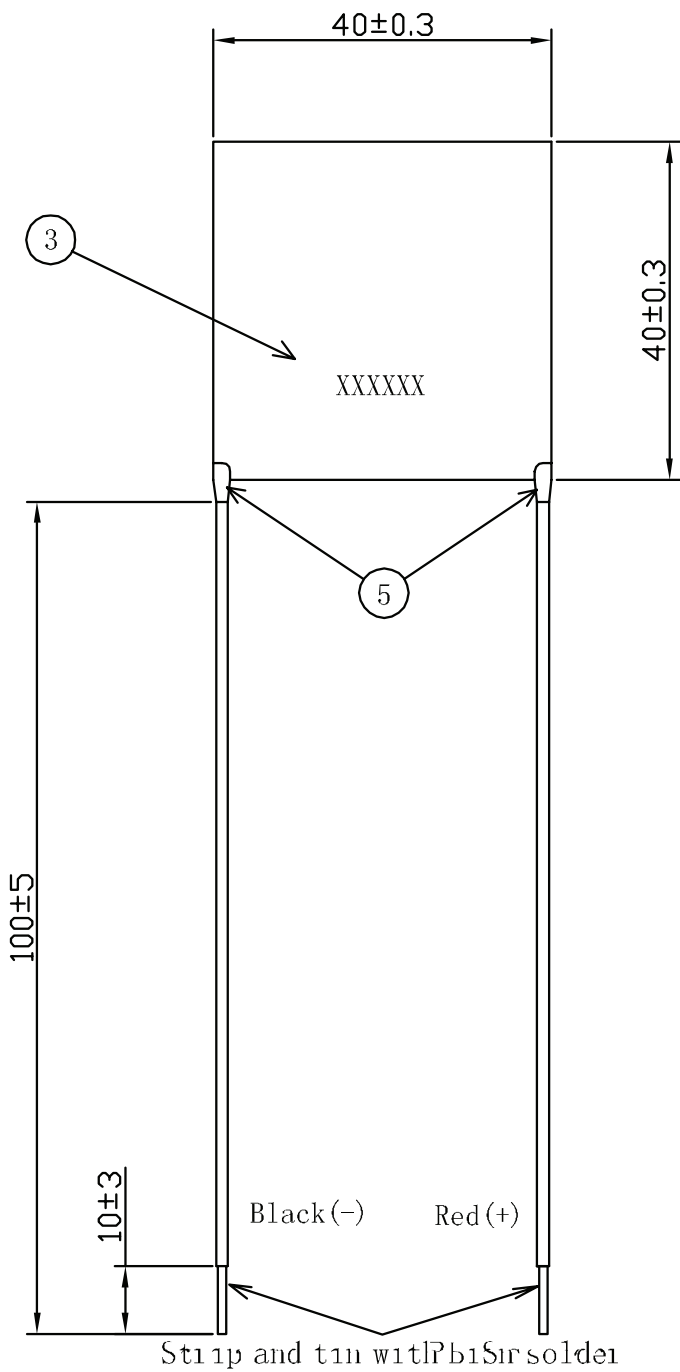
parameter	conditions/description	min	typ	max	units
input voltage ¹				24.6	V
input current ²				15.1	A
internal resistance ³		1.13	1.25	1.38	Ω
Qmax ⁴	Th = 27°C			229	W
	Th = 50°C			251	W
ΔT max ⁵	Th = 27°C			68	°C
	Th = 50°C			75	°C
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	yes				

Notes: 1. Maximum voltage at ΔT max and $T_c=27^\circ\text{C}$
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T=0^\circ\text{C}$
5. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q=0$ W (ΔT max measured in a vacuum at 1.3 Pa)

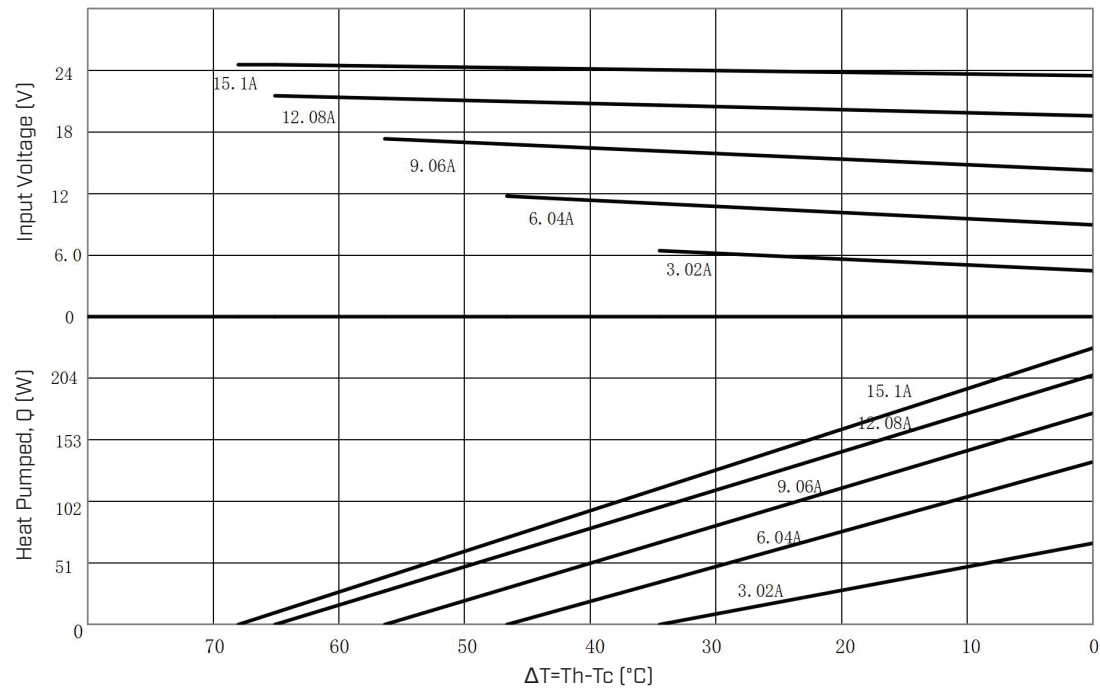
MECHANICAL DRAWING

units: mm

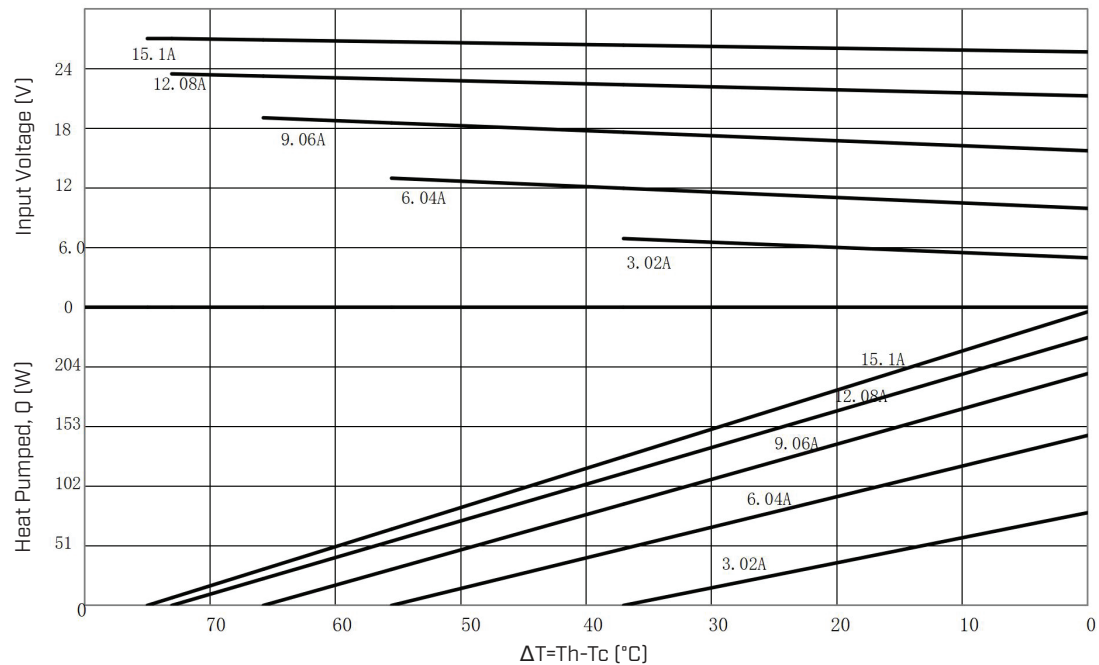
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	ceramic plate	96% AL ₂ O ₃	white
2	sealer	silicon rubber 703 RTV (between cold and hot side plates)	
3	marking	P/N & S/N printed on cold side surface	
4	wire leads	18 AWG (200°C max)	tin
5	joint cover	silicon rubber 703 RTV	



PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	10/24/2024

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



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

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