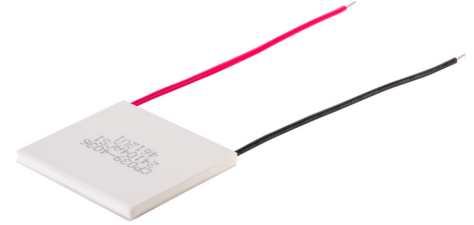




**MODEL:** CP039-4036 | **DESCRIPTION:** PELTIER MODULE

**FEATURES**

- arcTEC™ structure
- silicone sealed
- wide  $\Delta T_{max}$
- low profile
- precise temperature control
- solid state construction



**SPECIFICATIONS**

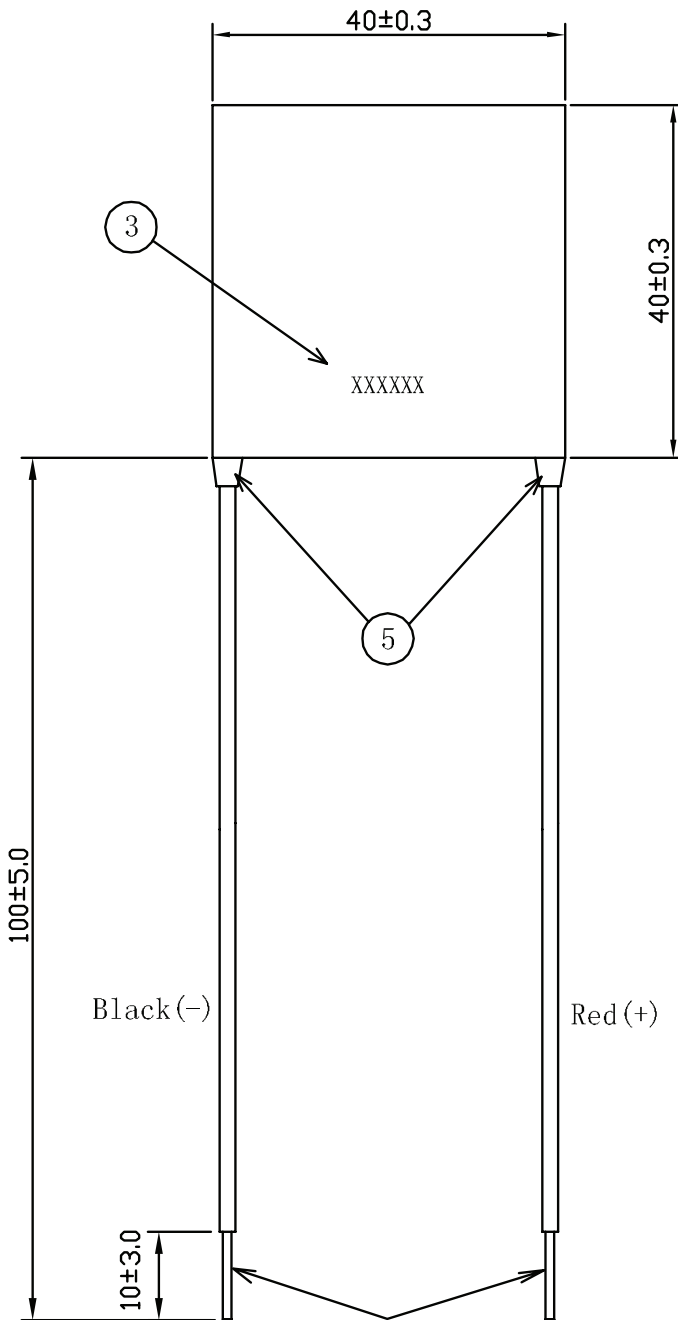
parameter	conditions/description	min	typ	max	units
input voltage <sup>1</sup>				29.8	V
input current <sup>2</sup>				3.9	A
internal resistance <sup>3</sup>		5.2	5.7	6.2	$\Omega$
Qmax <sup>4</sup>	Th = 27°C			66.8	W
	Th = 50°C			73.5	W
$\Delta T_{max}$ <sup>5</sup>	Th = 27°C			70	°C
	Th = 50°C			77	°C
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  $\Delta T_{max}$  and  $T_c=27^\circ\text{C}$
  2. Maximum current to achieve  $\Delta T_{max}$
  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  $Q=0\text{ W}$  ( $\Delta T_{max}$  measured in a vacuum at 1.3 Pa)

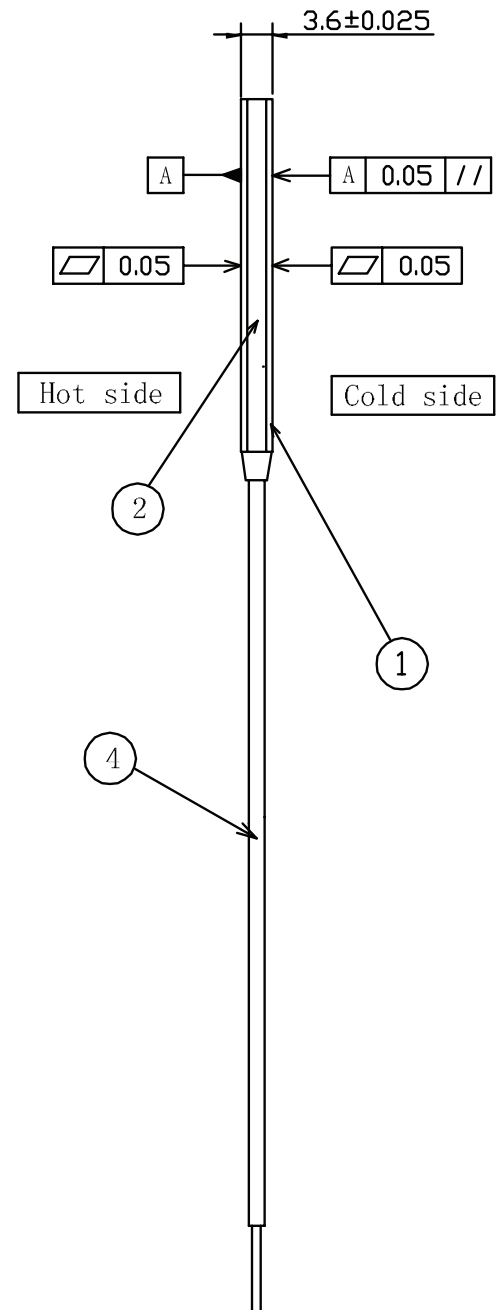
## MECHANICAL DRAWING

units: mm

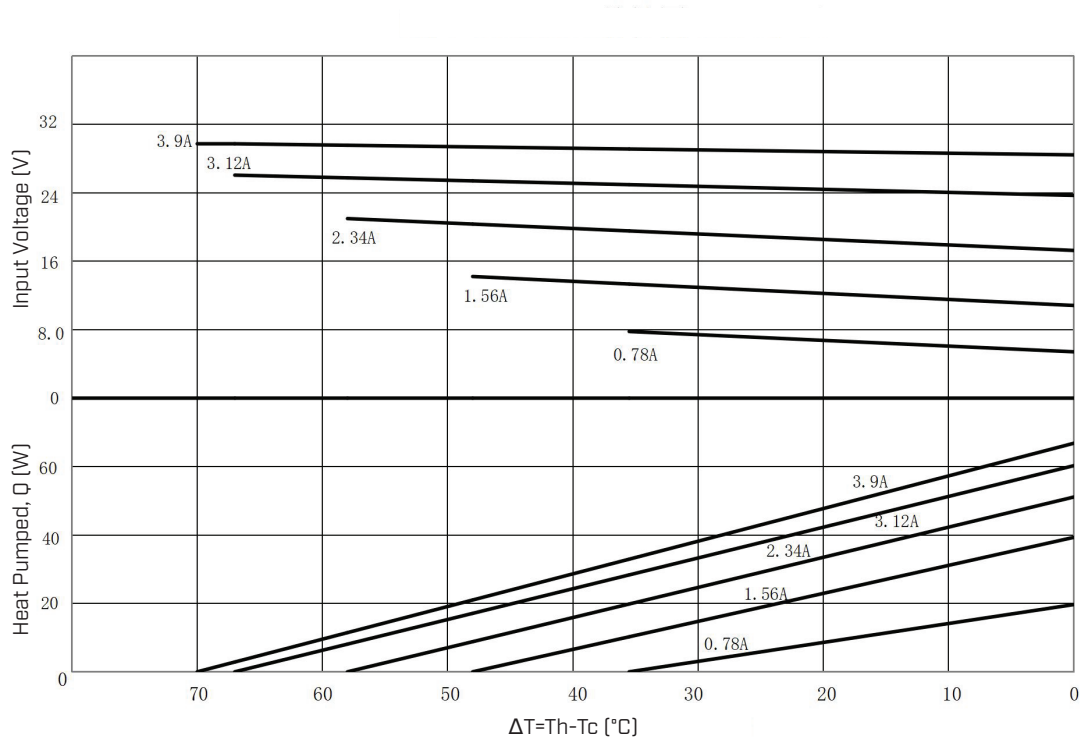
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	white
2	sealer	silicon rubber 703 RTV (between cold and hot side plates)	
3	marking	P/N & S/N printed on cold side surface	
4	wire leads	22 AWG (105°C max)	tin
5	joint cover	silicon rubber 703 RTV	



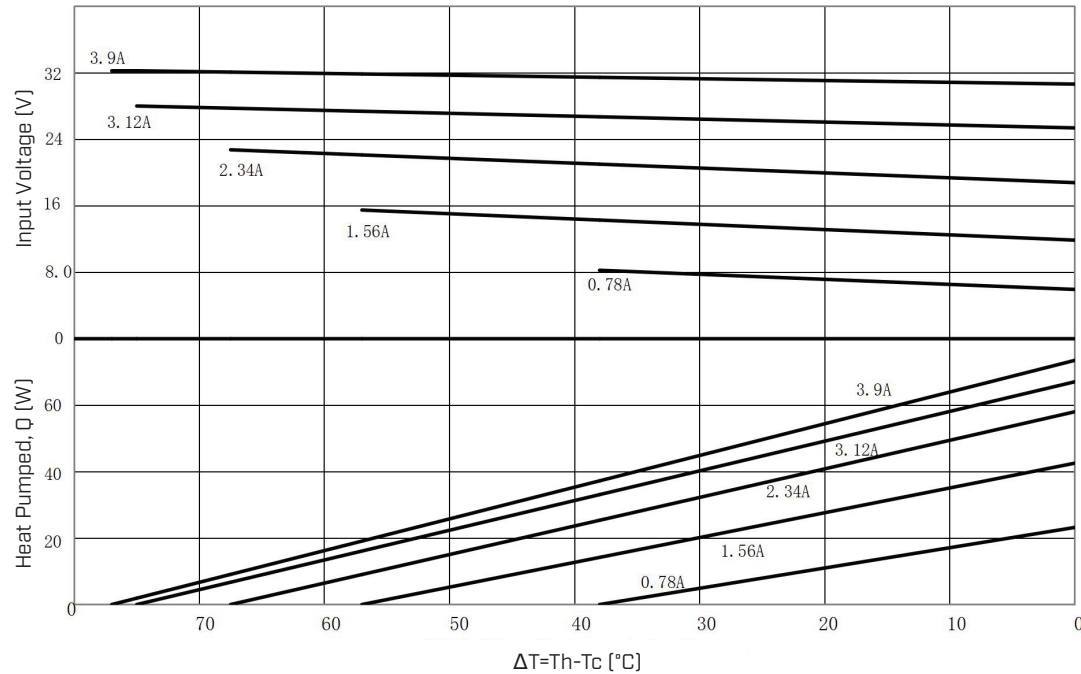
Strip and tin with BiSn solder



## 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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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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