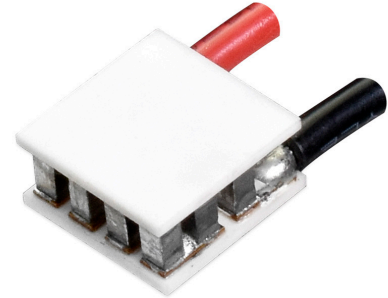


**SERIES:** CP34-M | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- micro size (less than 10 x 10 mm)
- wide  $\Delta T$  max
- $Q_{max}$  of 1.9 W
- precise temperature control
- solid state construction

**MODEL**

MODEL	input voltage <sup>1</sup> max (Vdc)	input current <sup>2</sup> max (A)	internal resistance <sup>3</sup> typ ( $\Omega \pm 0.05$ )	output $Q_{max}$ <sup>4</sup>		output $\Delta T_{max}$ <sup>5</sup>	
				$T_h = 27^\circ\text{C}$ (W)	$T_h = 50^\circ\text{C}$ (W)	$T_h = 27^\circ\text{C}$ ( $^\circ\text{C}$ )	$T_h = 50^\circ\text{C}$ ( $^\circ\text{C}$ )
CP3495-46	0.8	3.4	0.19	1.7	1.9	70	77

Notes:

1. Maximum voltage at  $\Delta T$  max and  $T_h = 27^\circ\text{C}$
2. Maximum current to achieve  $\Delta T$  max
3. Measured by AC 4-terminal method at  $25^\circ\text{C}$
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)

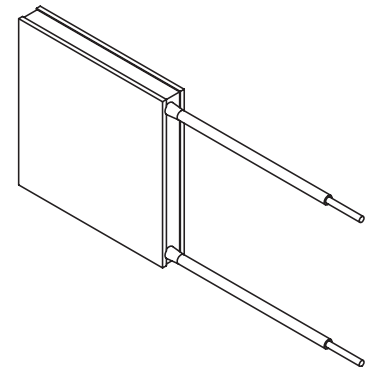
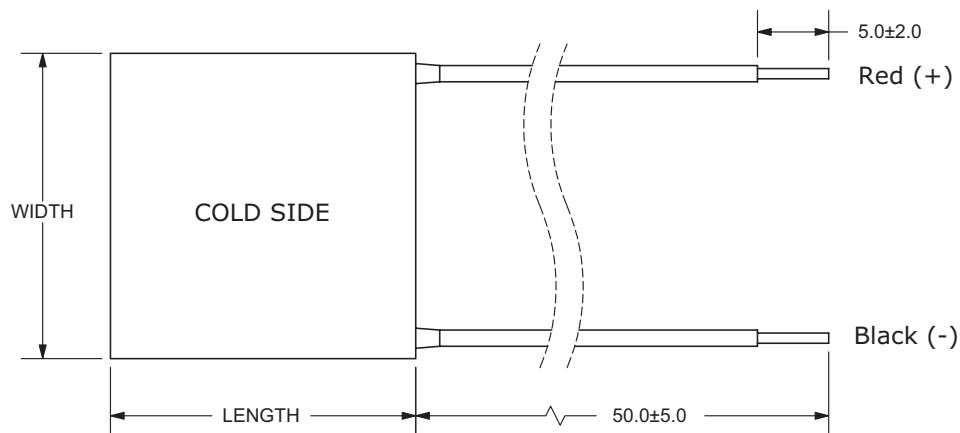
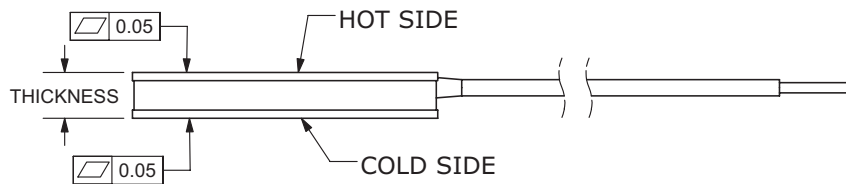
## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

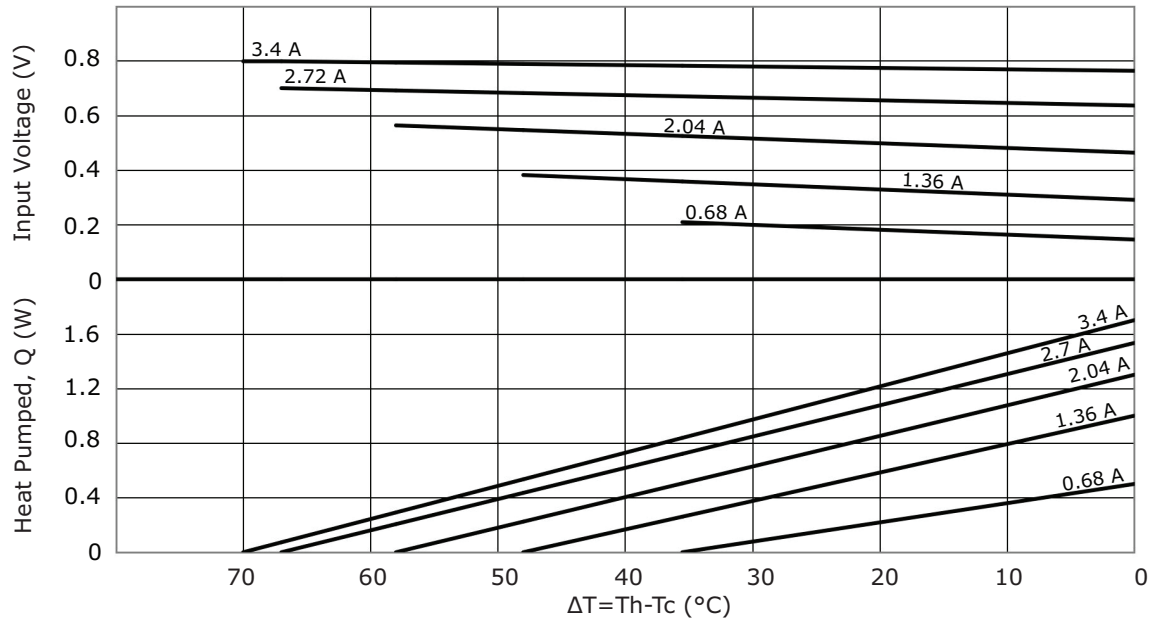
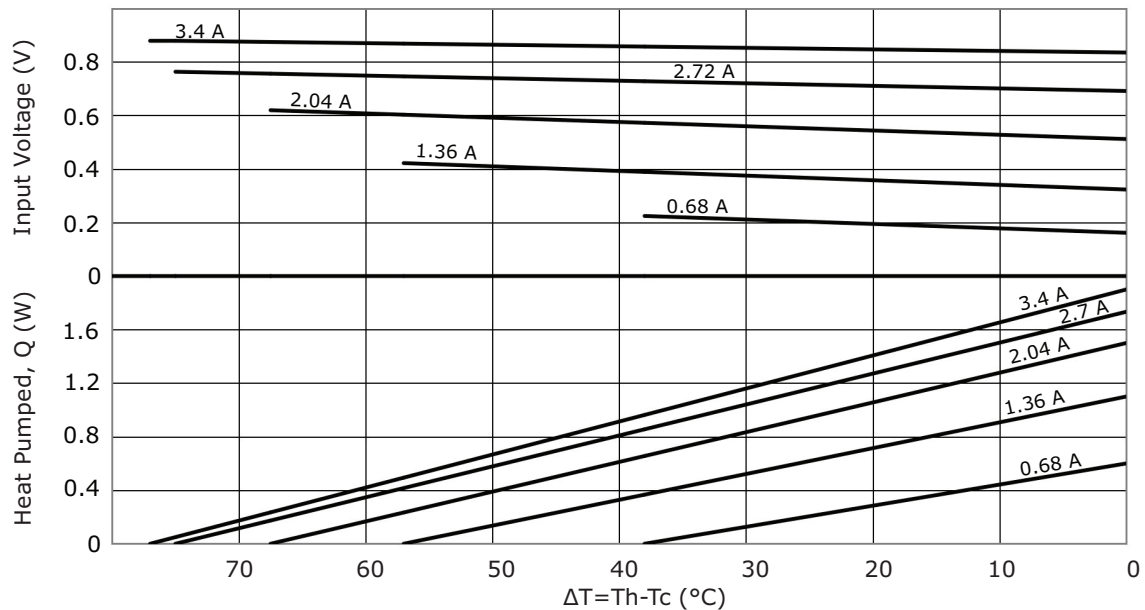
## MECHANICAL DRAWING

units: mm

	MATERIAL	PLATING
ceramic plate	96% $\text{Al}_2\text{O}_3$	
wire leads	18 AWG	tin
sealer	no sealing	



MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP3495-46	$9.5 \pm 0.3$	$9.5 \pm 0.3$	$4.6 \pm 0.15$

**CP3495-46 PERFORMANCE (Th=27°C)****CP3495-46 PERFORMANCE (Th=50°C)**

## REVISION HISTORY

rev.	description	date
1.0	initial release	07/08/2020

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

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# CUI DEVICES

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

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