

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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date 05/21/2018

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DESCRIPTION: PELTIER MODULE SERIES: CP50-2

FEATURES

- arcTEC™ structure
- solid state device
- 2-stage cooler
- precise temperature control
- silent operation





MODEL	input voltage¹	input current²	internal resistance³	output Qmax⁴		output ∆Tmax⁵	
	max (Vdc)	max (A)	typ $(\Omega \pm 10\%)$	T _h =27°C (W)	T _h =50°C (W)	T _h =27°C (°C)	T_h=50°C (°C)
CP502550665-2	12.8	5	2.4	23	25	82	92

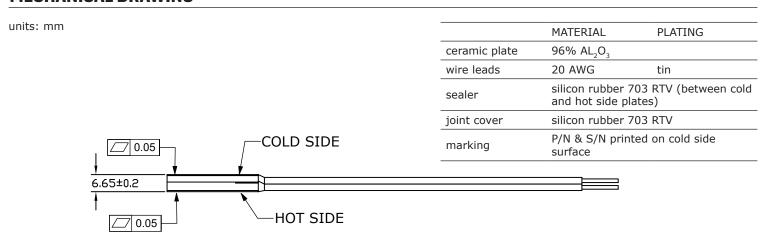
Notes:

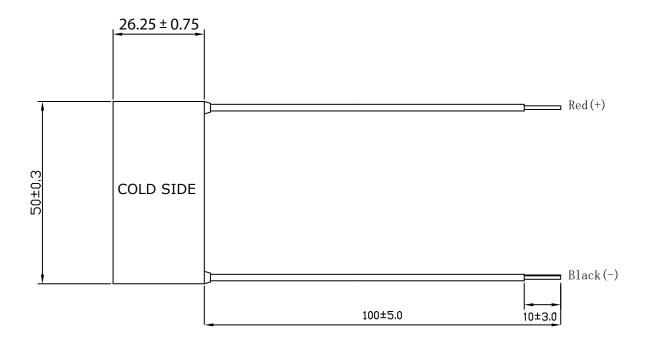
- 1. Maximum voltage at ΔT max and T_n =27°C 2. Maximum current to achieve ΔT max 3. Measured by AC 4-terminal method at 25°C
- 4. Maximum heat absorbed at cold side occurs at $I_{max'}$ $V_{max'}$ and $\Delta T=0$ °C 5. Maximum temperature difference occurs at $I_{max'}$ $V_{max'}$ and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

SPECIFICATIONS

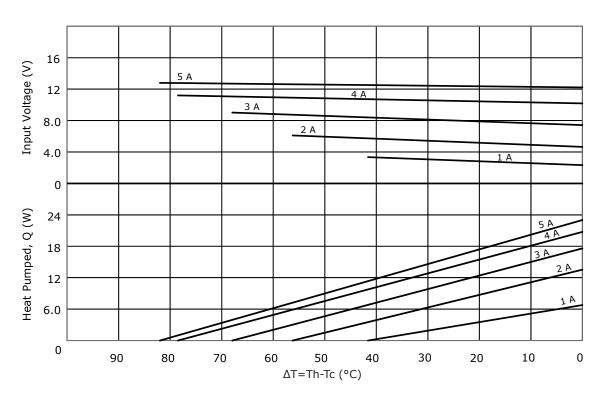
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	2011/65/EU				

MECHANICAL DRAWING

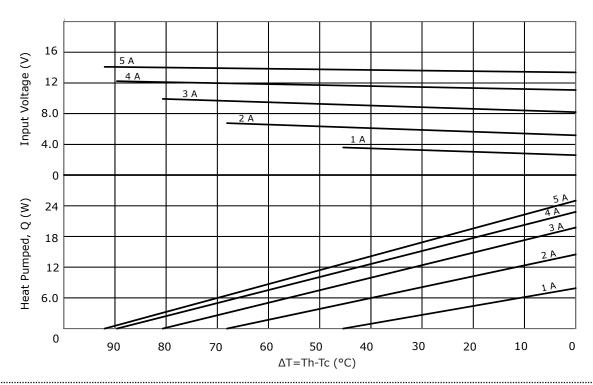




PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	05/21/2018

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



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

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CUI 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.