imall

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!



Contact us

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DESCRIPTION: 3.0 A PELTIER MODULE SERIES: CP30

FEATURES

- solid state device
- small and lightweight
- precise temperature control
- quiet operation



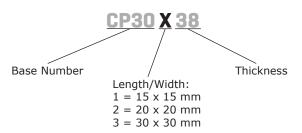


MODEL	input voltage	input current	output Qmax ¹		output ∆Tmax²	
	max (V)	max (A)	T _h =27°C (W)	T _h =50°C (W)	T_h=27°C (°C)	Т_ь=50°С (°С)
CP30138	3.8	3	6.5	7.2	66	72
CP30238	8.6	3	15	16.7	66	72
CP30338	15.4	3	27	30.1	66	72

Notes:

1. maximum cooling capacity at $I_{max'}$ $V_{max'}$ and $\Delta T=0^\circ C$ 2. maximum temperature difference at $I_{max'}$ $V_{max'}$ and Q=0W (maximum parameters are measured in a vacuum)

PART NUMBER KEY



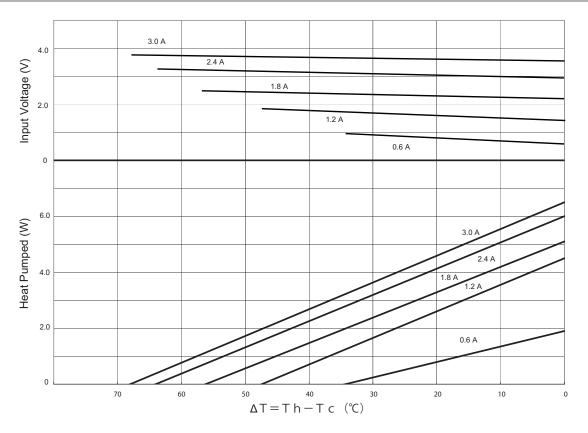
GENERAL

parameter	conditions/description	min	typ	max	units
	CP30138	0.9	1.0	1.1	Ω
internal resistance ³	CP30238	2.07	2.3	2.53	Ω
	CP30338	3.6	4.0	4.4	Ω
solder melting temperature	connection between termoelectric pairs			138	°C
				98.07	N/cm ²
assembly compression				10	kgf/cm ²
hot side plate				80	°C
MTBF				200,000	hours

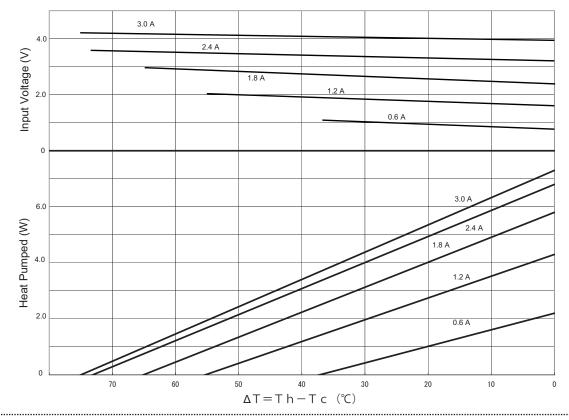
3. measured by AC 4-terminal method at 25°C Notes:

For further information and product selection refer to peltier application notes.pdf

CP30138 PERFORMANCE (Th=27°C)

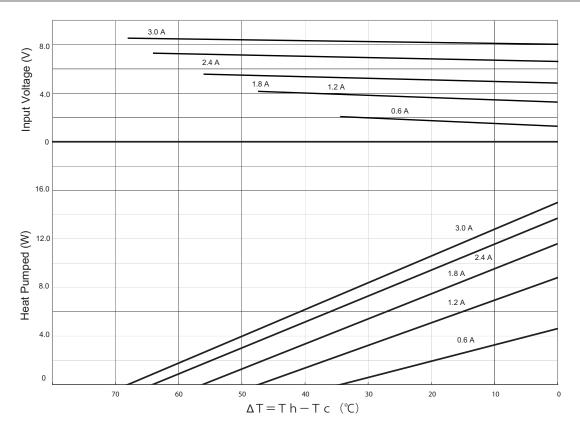


CP30138 PERFORMANCE (Th=50°C)

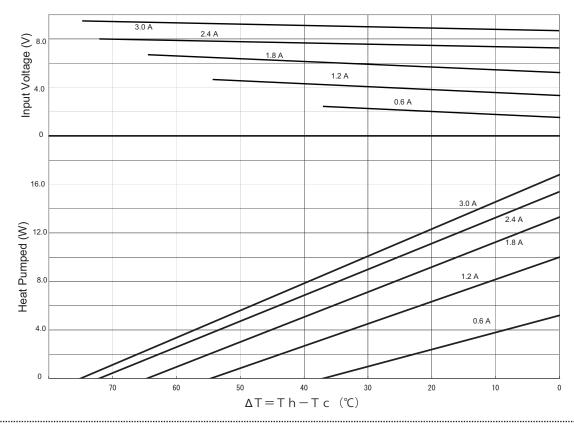


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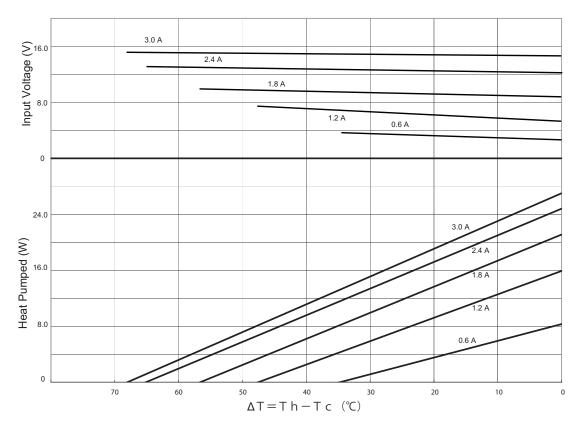
CP30238 PERFORMANCE (Th=27°C)



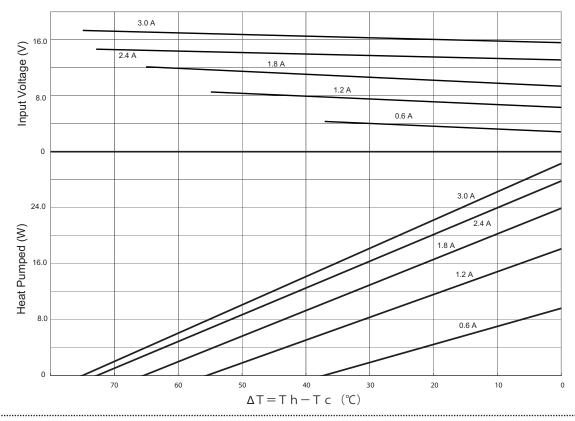
CP30238 PERFORMANCE (Th=50°C)



CP30338 PERFORMANCE (Th=27°C)

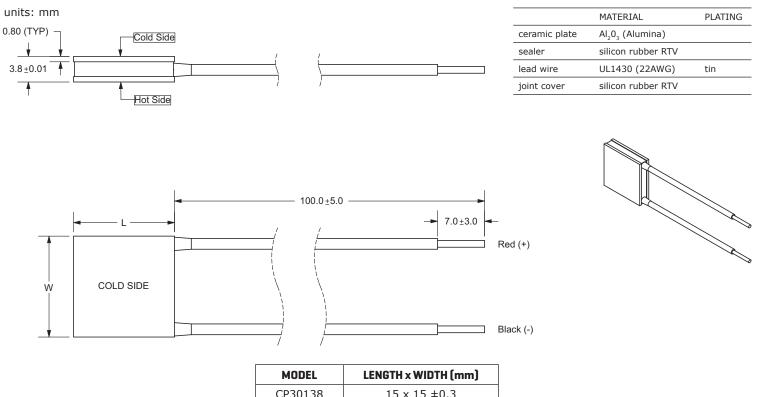


CP30338 PERFORMANCE (Th=50°C)



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MECHANICAL DRAWING



MODEL	LENGTH x WIDTH (mm)		
CP30138	15 x 15 ±0.3		
CP30238	20 x 20 ±0.3		
CP30338	30 x 30 ±0.3		

REVISION HISTORY

rev.	description	date	
1.0	initial release	09/03/2009	
1.01	applied new template	05/07/2012	

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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