

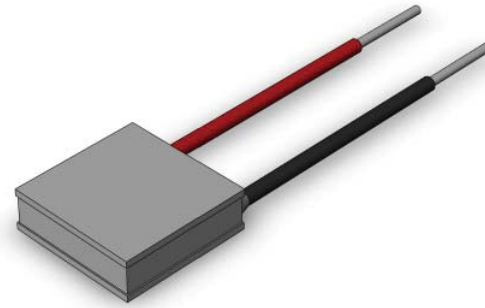


**PART NUMBER: CP85138**

**DESCRIPTION: PELTIER MODULE**

**FEATURES**

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



**INPUT**

parameter	conditions/description	min	nom	max	units
resistance	measured by AC 4-terminal method at 25°C	0.18	0.20	0.22	Ω
current	maximum current at ΔTmax			8.5	A
voltage	maximum voltage at ΔTmax			2.1	V

**OUTPUT**

parameter	conditions/description	min	nom	max	units
Qmax <sup>1</sup>	Th = 27°C			10.0	W
	Th = 50°C			11.1	W
ΔTmax <sup>2</sup>	Th = 27°C			68	°C
	Th = 50°C			75	°C

Notes: 1. Maximum cooling capacity at Imax, Vmax, and ΔT = 0°C  
2. Maximum temperature difference at Imax, Vmax, Q = 0 W (maximum parameters are measured in a vacuum)

**GENERAL**

parameter	conditions/description	min	nom	max	units
solder melting temperature	connection between thermoelectric pairs			138	°C
assembly compression				98.07	N/cm <sup>2</sup>
				10	kgf/cm <sup>2</sup>
hot side plate				90	°C
MTBF				200,000	hours

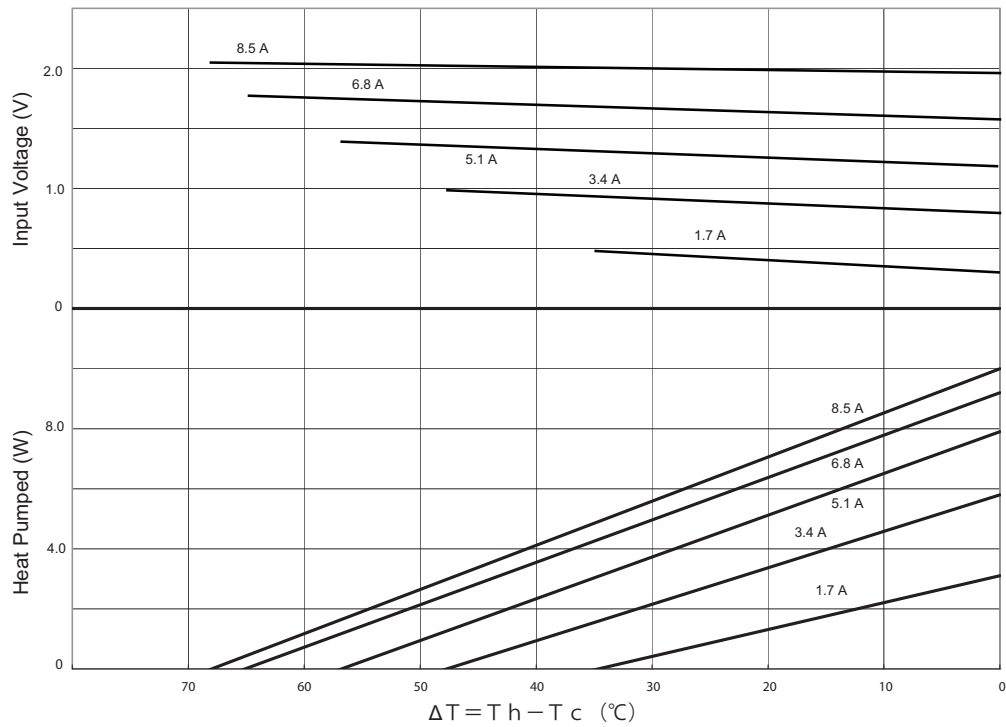
\*for further information and product selection refer to peltier application notes.pdf



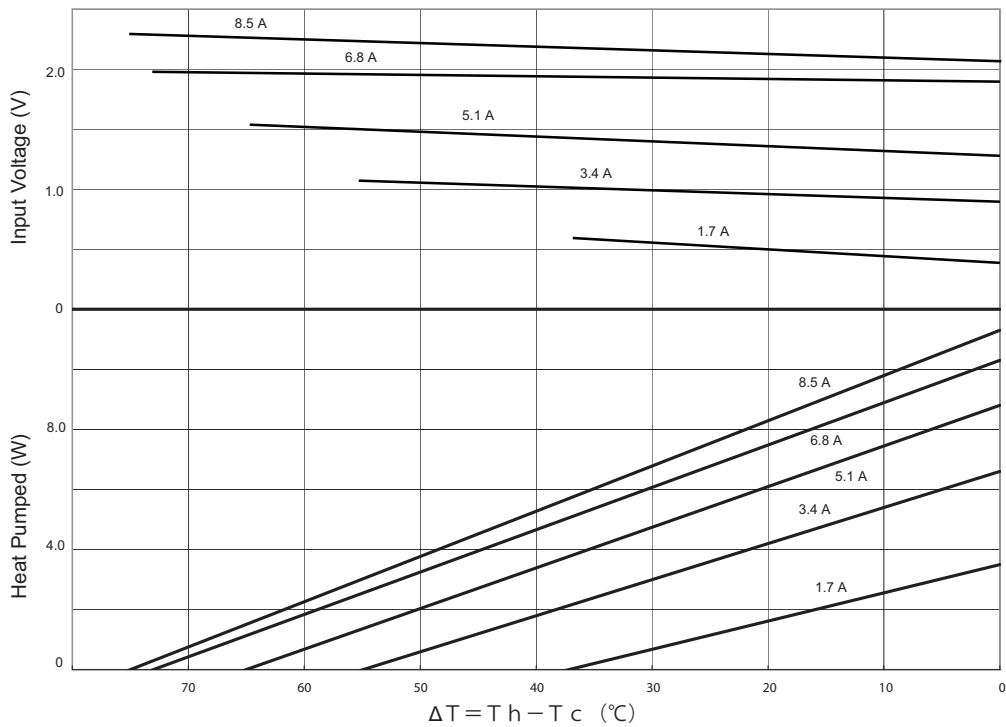
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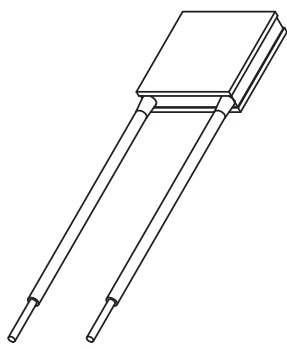
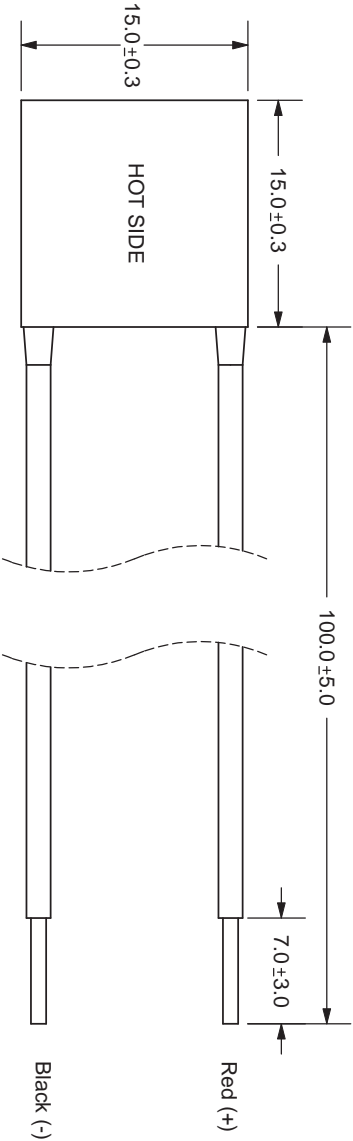
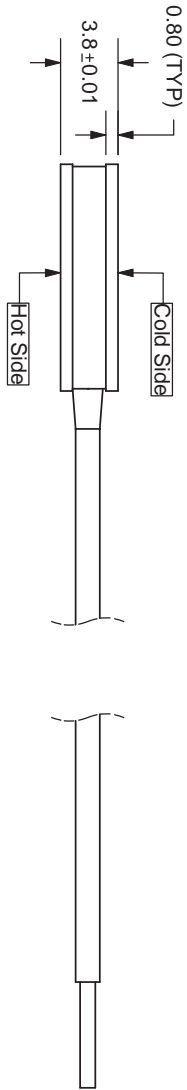
**PERFORMANCE (Th=27°C)**



**PERFORMANCE (Th=50°C)**



REV.	DESCRIPTION	DATE
A	NEW DRAWING	10/3/2007



SCALE 1:1

TOLERANCE:  
±0.1mm UNLESS OTHERWISE  
NOTED



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TITLE: PELTIER MODULE		REV: A
CERAMIC PLATE	Al <sub>2</sub> O <sub>3</sub> (Alumina)	White Color
SEALER	Silicon Rubber RTV	White Color
LEAD WIRE	UL1332	Tin
JOINT COVER	Silicon Rubber RTV	White Color
PC FILE NAME: CP85138	PART NO. CP85138	UNITS: MM [INCHES]
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		SCALE: 2:1