

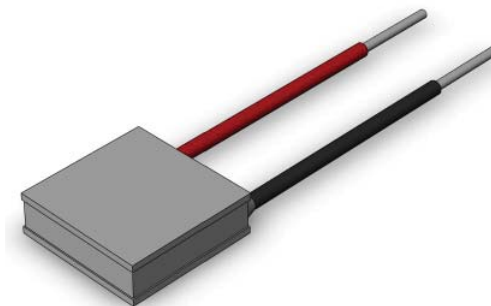


PART NUMBER: CP30138

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	0.9	1.0	1.1	Ω
current	maximum current at ΔT_{max}			3	A
voltage	maximum voltage at ΔT_{max}			3.8	V

OUTPUT

parameter	conditions/description	min	nom	max	units
Q_{max}^1	$T_h = 27^\circ\text{C}$			6.5	W
	$T_h = 50^\circ\text{C}$			7.2	W
ΔT_{max}^2	$T_h = 27^\circ\text{C}$			66	$^\circ\text{C}$
	$T_h = 50^\circ\text{C}$			72	$^\circ\text{C}$

Notes: 1. Maximum cooling capacity at I_{max} , V_{max} , and $\Delta T = 0^\circ\text{C}$
2. Maximum temperature difference at I_{max} , V_{max} , $Q = 0$ W (maximum parameters are measured in a vacuum)

GENERAL

parameter	conditions/description	min	nom	max	units
solder melting temperature	connection between thermoelectric pairs			138	$^\circ\text{C}$
assembly compression				98.07 10	N/cm ² kgf/cm ²
hot side plate				90	$^\circ\text{C}$
MTBF				200,000	hours

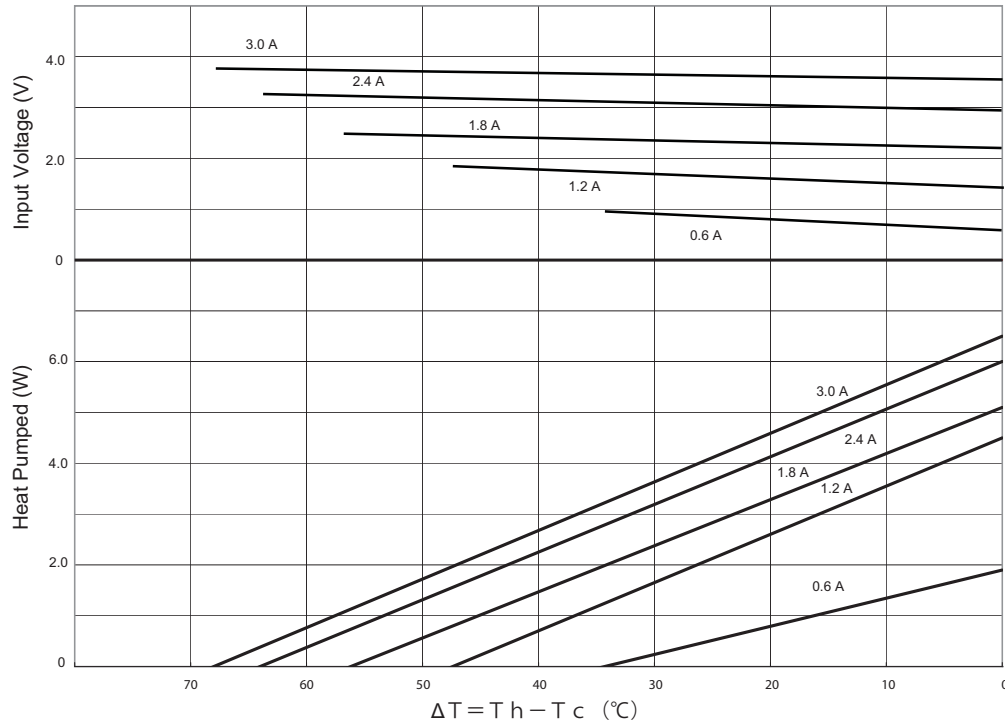
*for further information and product selection refer to peltier application notes.pdf



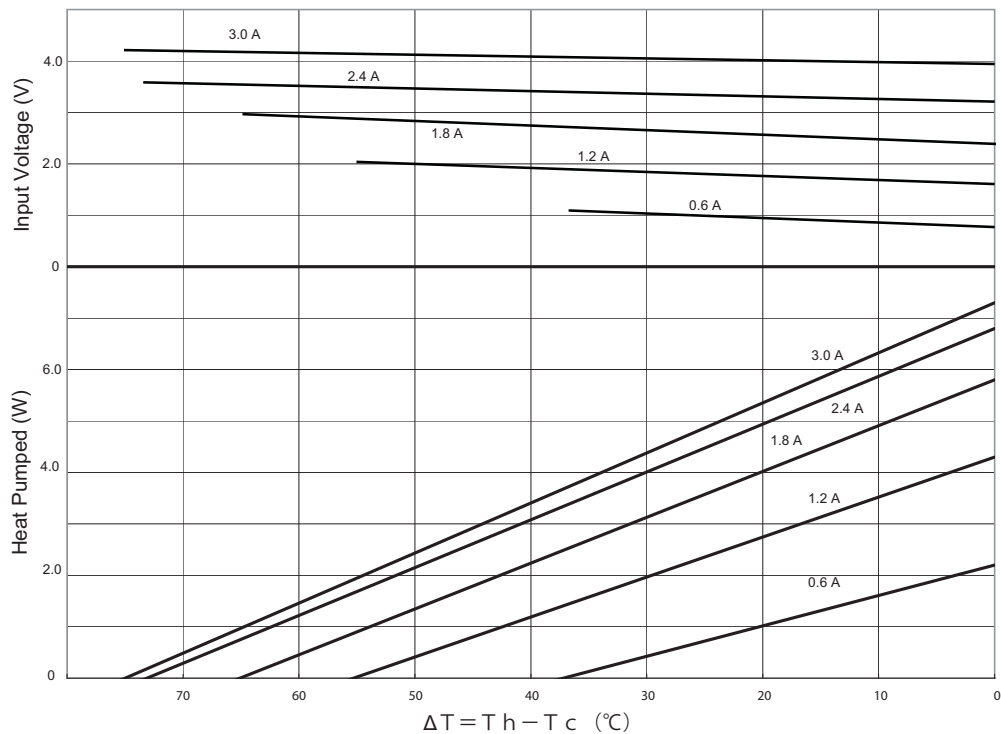
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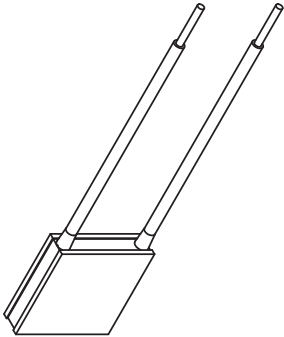
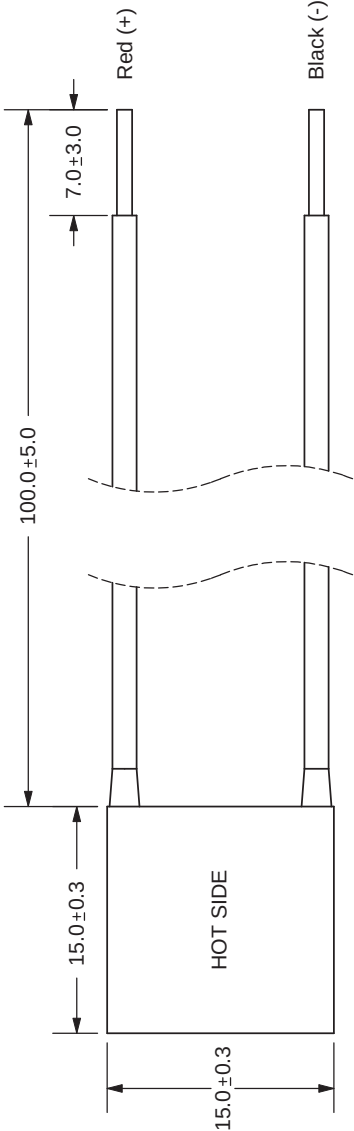
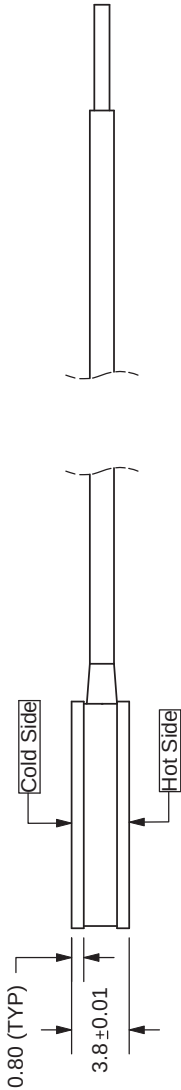
PERFORMANCE (Th=27°C)



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 SEALER LEAD WIRE JOINT COVER	MATERIAL	PLATING
	Al ₂ O ₃ (Alumina)	White Color
	Silicon Rubber RTV	White Color
UL1332		Tin
Silicon Rubber RTV		White Color

PART NO. CP30138		UNITS: MM [INCHES]
DRAWN BY: ZRJ	APPROVED BY:	SCALE: 2:1