

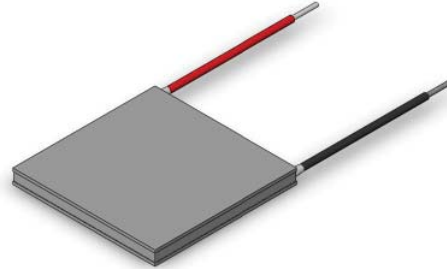


PART NUMBER: CP85438

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	1.35	1.5	1.65	Ω
current	maximum current at ΔTmax			8.5	A
voltage	maximum voltage at ΔTmax			15.4	V

OUTPUT

parameter	conditions/description	min	nom	max	units
Qmax ¹	Th = 27°C			75.0	W
	Th = 50°C			83.9	W
ΔTmax ²	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 ²
				10	kgf/cm ²
hot side plate				90	°C
MTBF				200,000	hours

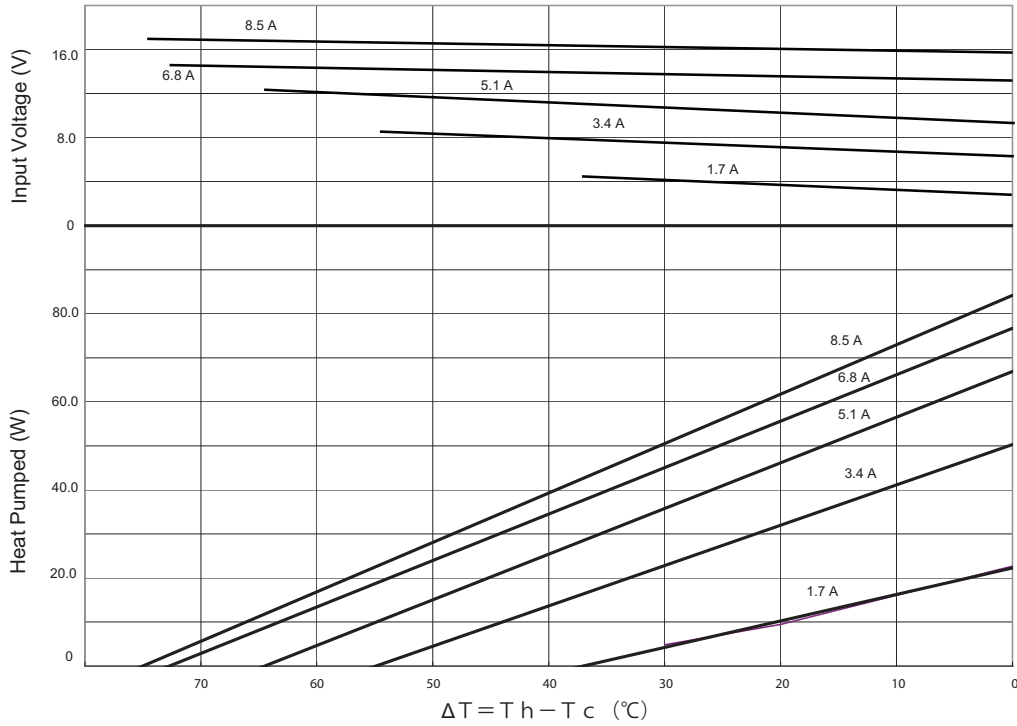
*for further information and product selection refer to peltier application notes.pdf



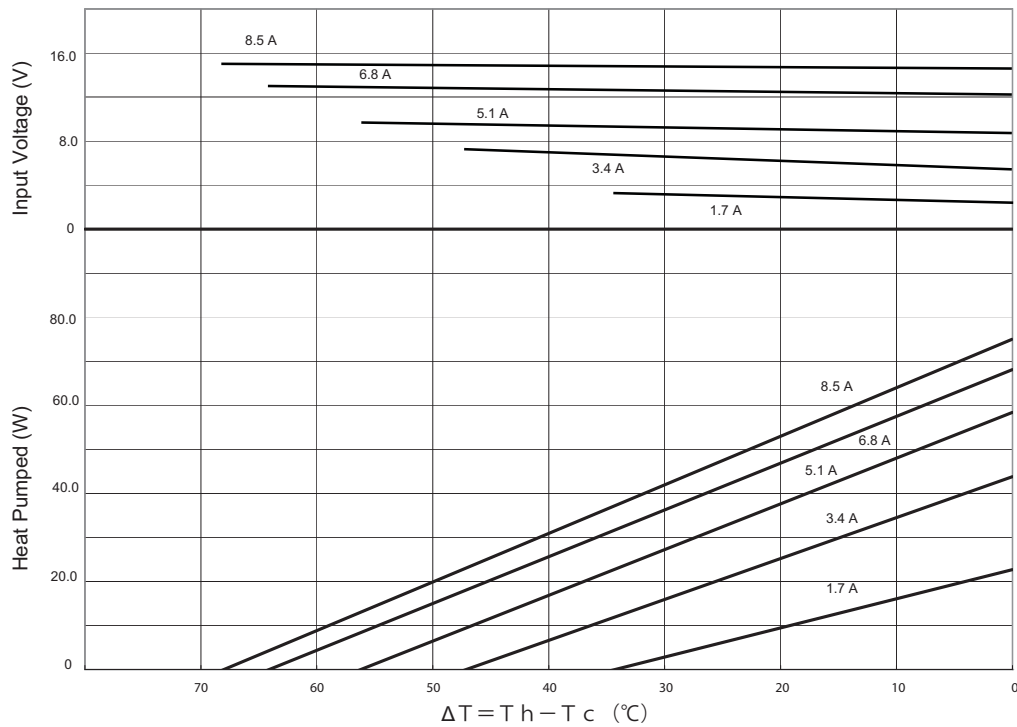
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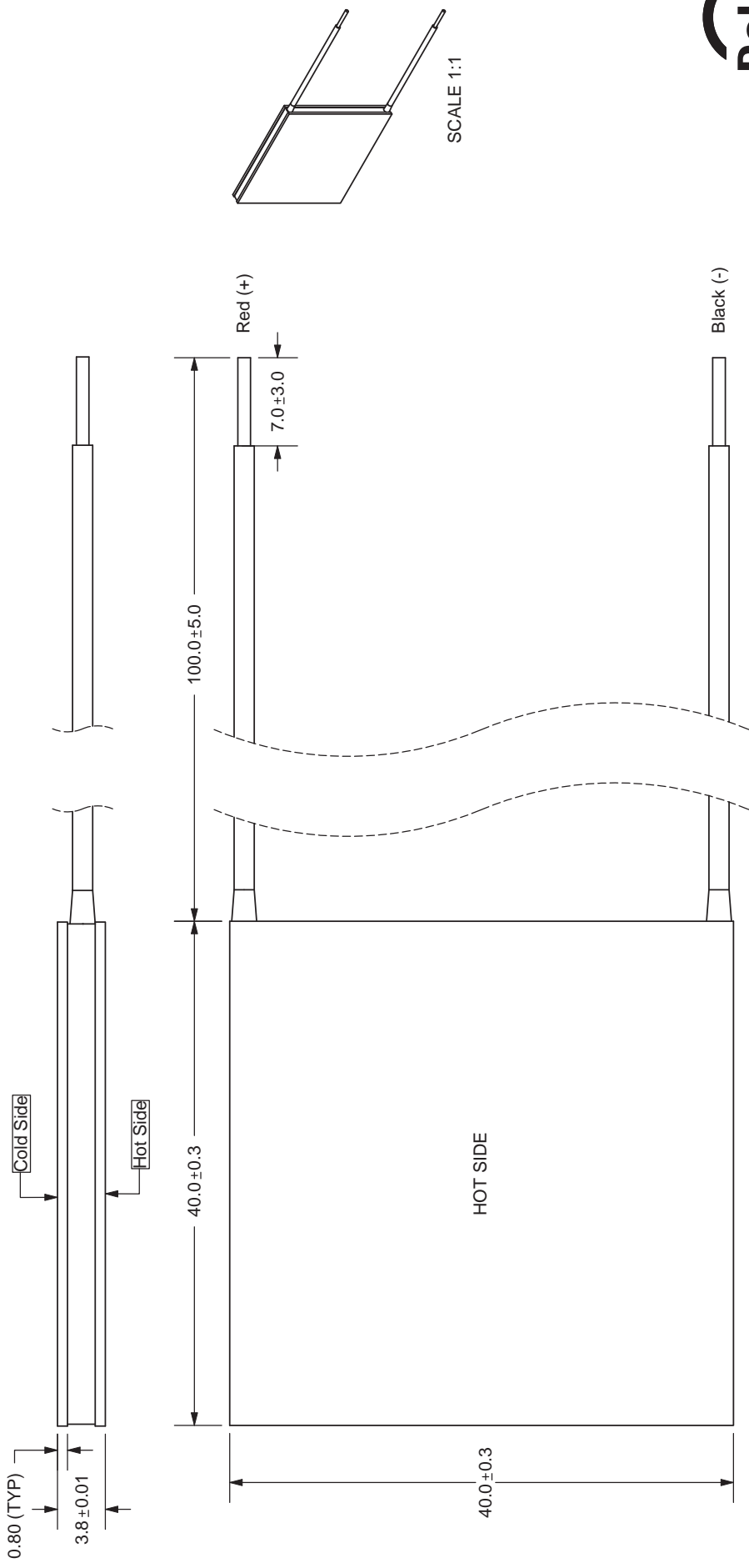
PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



REV.	DESCRIPTION	DATE
A	NEW DRAWING	10/3/2007
B	lead wire material change	8/11/2008



TOLERANCE:
±0.1mm UNLESS OTHERWISE
NOTED



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TITLE: PELTIER MODULE	REV: B
PART NO. CP85438	UNITS: MM [INCHES]
DRAWN BY: ZRJ	APPROVED BY:
	SCALE: 2:1

CERAMIC PLATE	MATERIAL	PLATING
SEALER	Al ₂ O ₃ (Alumina)	White Color
LEAD WIRE	Silicon Rubber RTV	White Color
JOINT COVER	UL1674	Tin
	Silicon Rubber RTV	White Color

PC FILE NAME: CP85438

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