

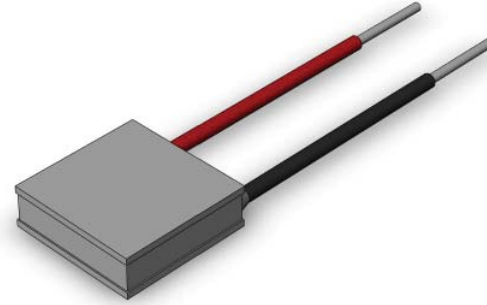


PART NUMBER: CP20151

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	1.54	1.6	1.8	Ω
current	maximum current at ΔTmax			2	A
voltage	maximum voltage at ΔTmax			3.8	V

OUTPUT

parameter	conditions/description	min	nom	max	units
Qmax ¹	Th = 27°C			3.7	W
	Th = 50°C			4.0	W
ΔTmax ²	Th = 27°C			66	°C
	Th = 50°C			72	°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

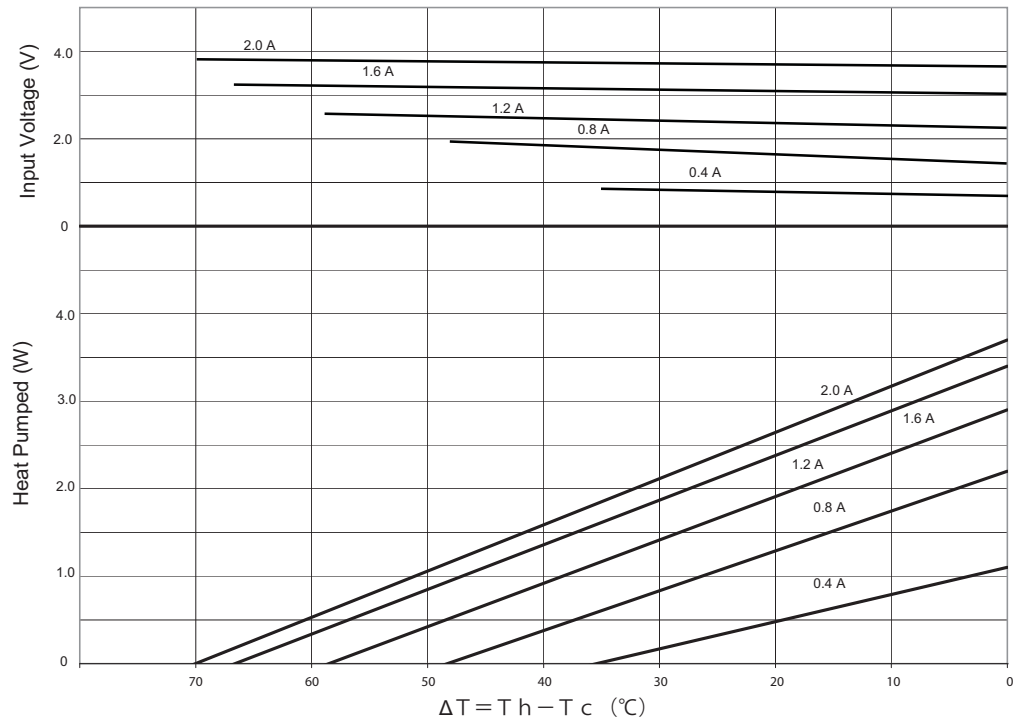
*for further information and product selection refer to peltier application notes.pdf



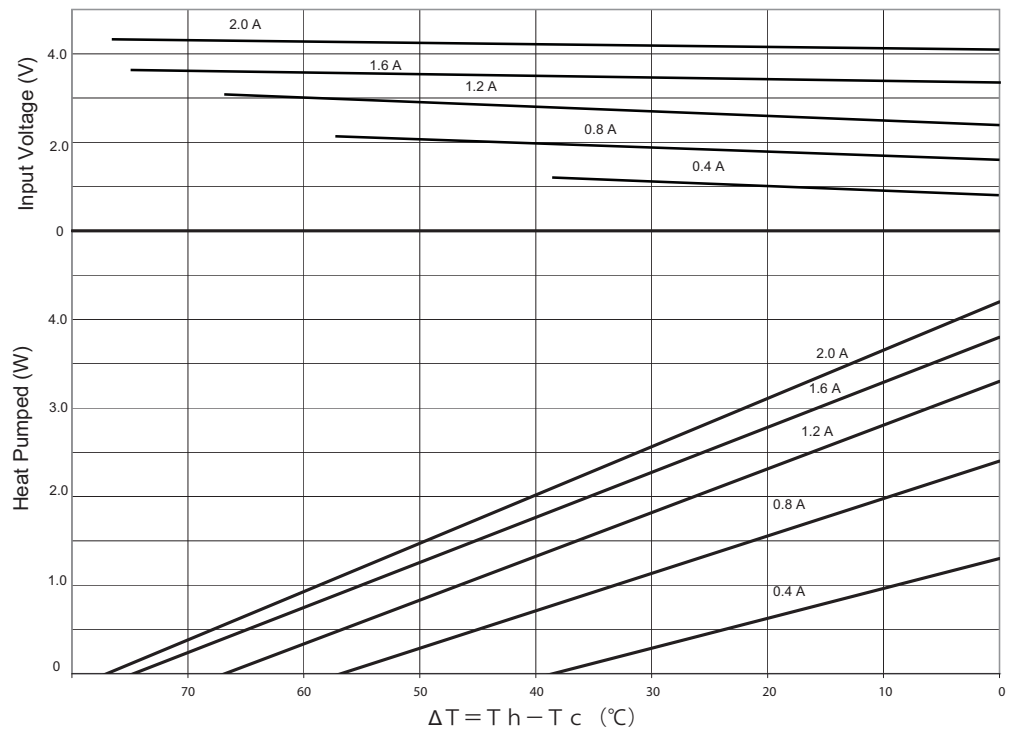
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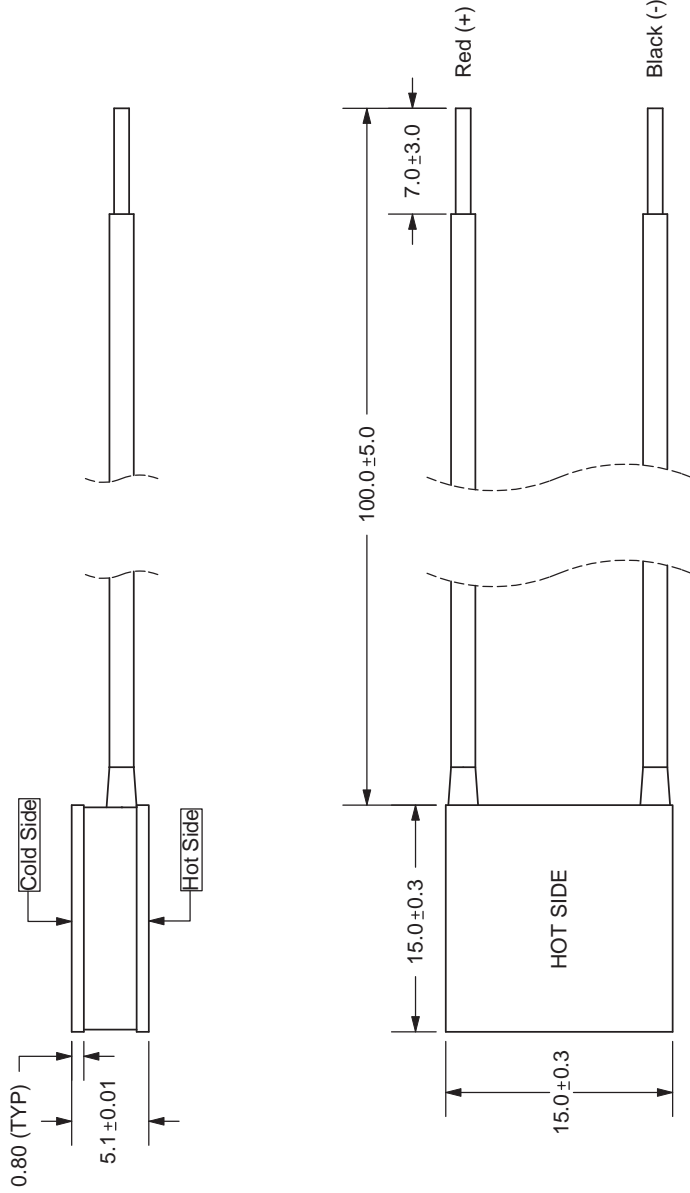
PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



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



SCALE 1:1



TOLERANCE:
±0.1mm UNLESS OTHERWISE
NOTED



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TITLE:	PELTIER MODULE	REV:	A
PART NO.	CP20151	UNITS:	MM [INCHES]
DRAWN BY:	ZRJ	APPROVED BY:	
		SCALE:	2:1

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