

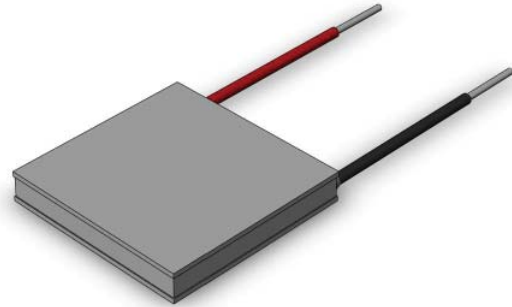


PART NUMBER: CP85338

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 | 0.81 | 0.90 | 0.99 | Ω |
| current | maximum current at ΔTmax | | | 8.5 | A |
| voltage | maximum voltage at ΔTmax | | | 8.6 | V |

OUTPUT

| parameter | conditions/description | min | nom | max | units |
|--------------------|------------------------|-----|-----|------|-------|
| Qmax ¹ | Th = 27°C | | | 42.0 | W |
| | Th = 50°C | | | 46.9 | W |
| ΔTmax ² | Th = 27°C | | | 68 | °C |
| | Th = 50°C | | | 75 | °C |

Notes: 1. Maximum cooling capacity at I_{max}, V_{max}, and ΔT = 0°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 | °C |
| assembly compression | | | | 98.07 | N/cm ² |
| | | | | 10 | kgf/cm ² |
| hot side plate | | | | 90 | °C |
| MTBF | | | | 200,000 | hours |

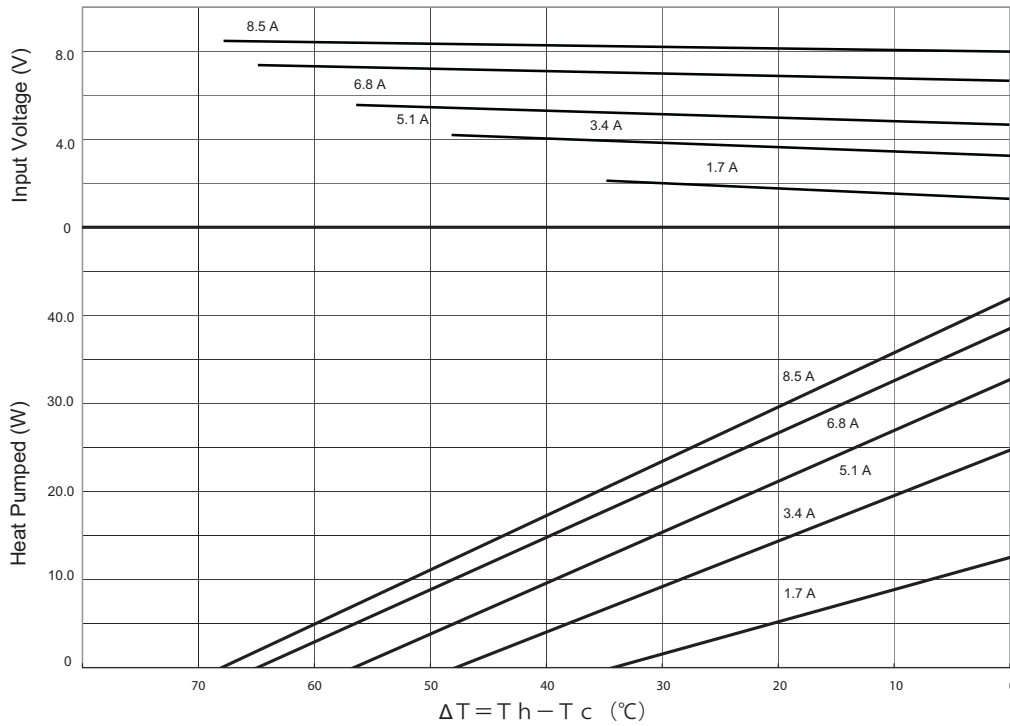
*for further information and product selection refer to peltier application notes.pdf



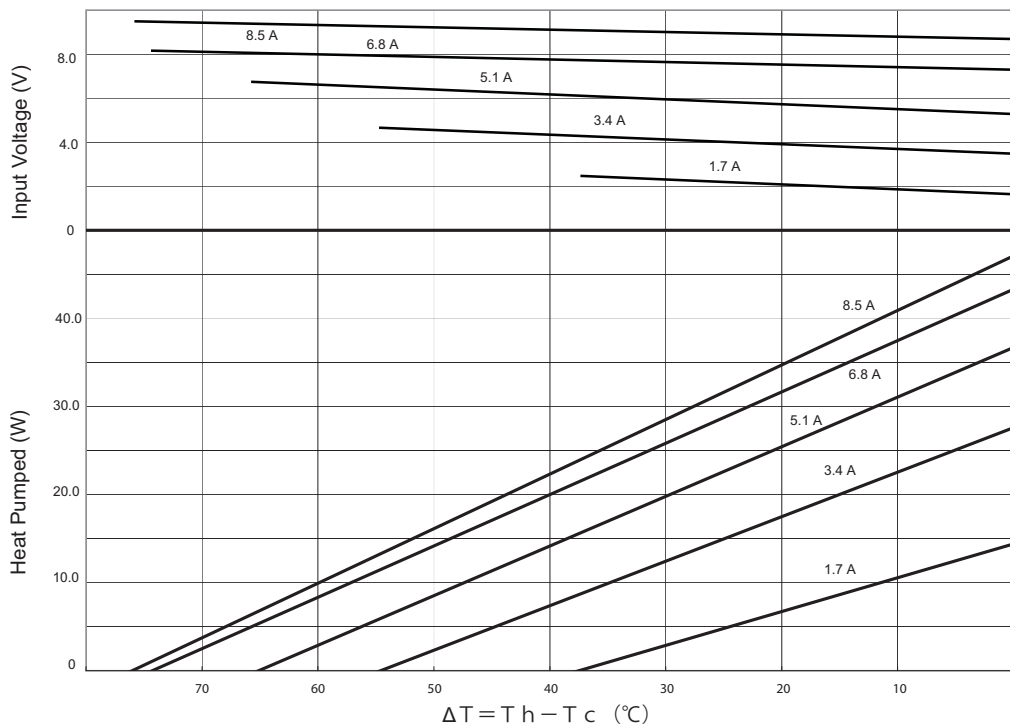
PART NUMBER: CP85338

DESCRIPTION: PELTIER MODULE

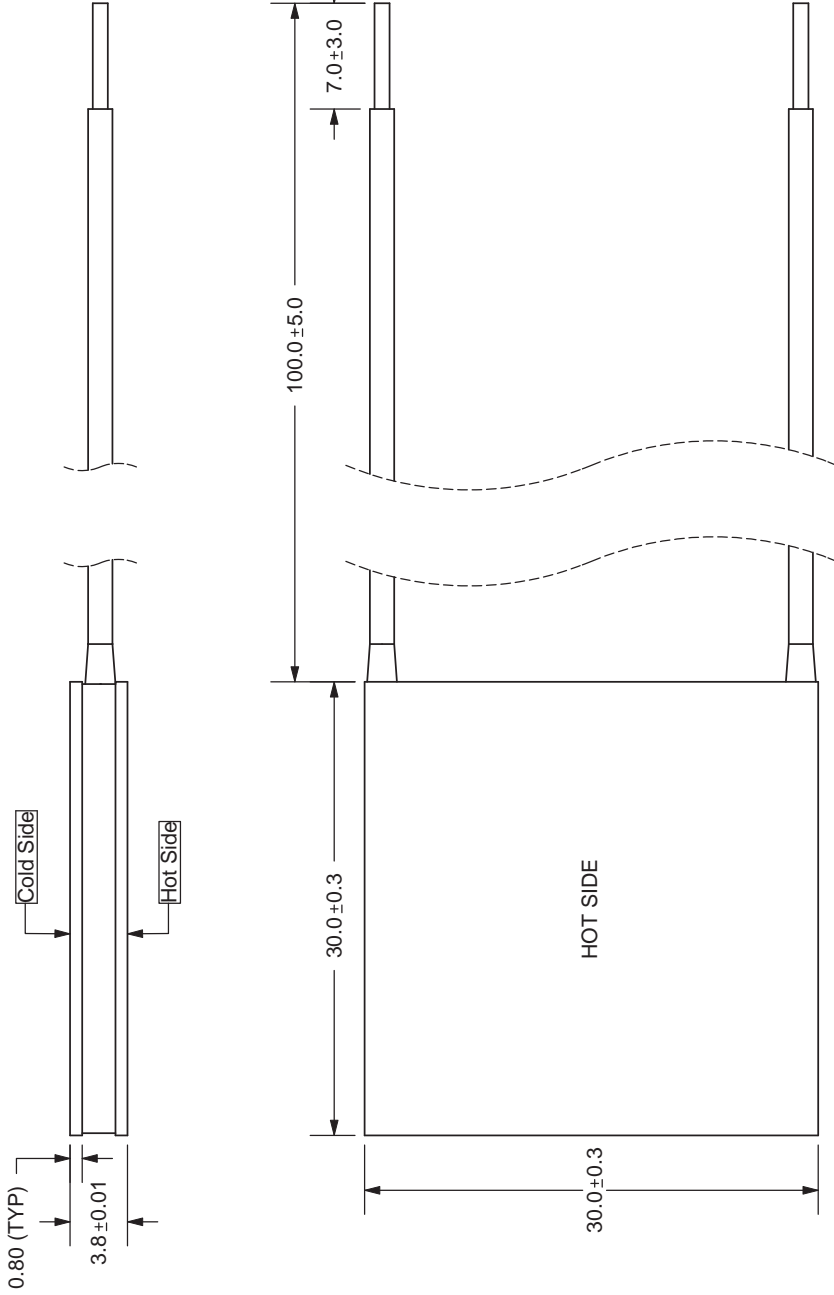
PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



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



SCALE 1:1



TOLERANCE:
±0.1mm UNLESS OTHERWISE
NOTED



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| | |
|-----------------------|--------------------|
| TITLE: PELTIER MODULE | REV: A |
| PARTNO: CP85338 | 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 |

PC FILE NAME: CP85338

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