multicomp PRO



Feature

Transducer Function: Thermoelectric modules

Specifications

| Parameters | | | Remarks |
|--------------------------|-----------------|--|---------|
| Internal resistance | 2.4Ω ± 10% | | Note-1 |
| Imax. | 8.5A | | Note-2 |
| Vmax. | 24.6V | | Note-3 |
| | Th=27°C | | |
| Qmax. | 121W | | Note-4 |
| ⊿Tmax. | 71°C | | Note-5 |
| Solder Melting Point | 138°C | | Note-6 |
| Max. Compress | 1MPa | | Note-7 |
| Operating Temperature | -90°C to +100°C | | |
| External Depth | 3.8mm | | |
| External Length / Height | 40mm | | |

Note-1 Measured by AC 4-terminal method at 25°C

Note-2 Max. current at ⊿Tmax

Note-3 Max. voltage at ⊿Tmax

Note-4 Max. cooling capacity at Imax.,Vmax. and ⊿T=0°C

Note-5 Max. temperature difference at Imax.,Vmax. and Q=0W (Max. parameters are measured in a vacuum 1.3P)

Note-6 The solder melting point of thermoelectric module

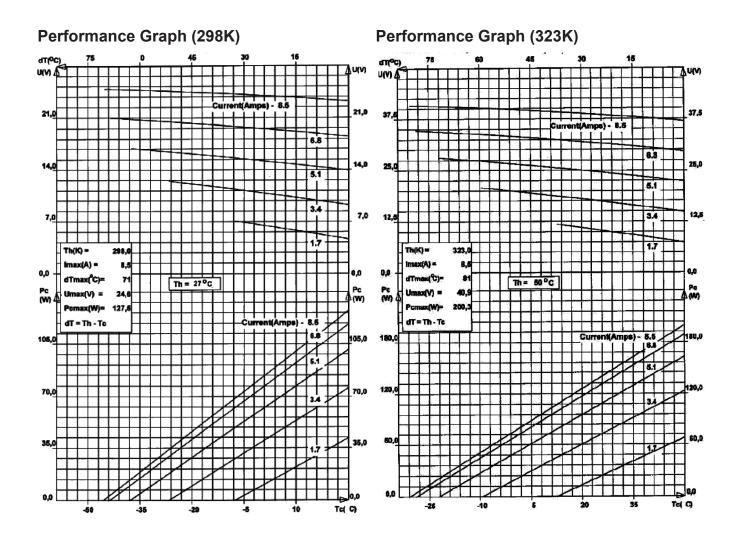
Note-7 Recommended Max. compression (not destruction limit)

Recommendations

- High cooling capacity from a small surface and long lifetime in power cycling applications with change of current polarity
- With operation current close to 0.5 Imax extremely high COP (coefficient of performance possible)
- Preferable application; high cooling capacity at high temperatures / cycling

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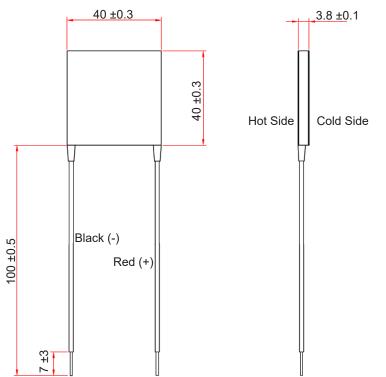




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Outline Drawing



Dimensions : Millimetres

Part Number Table

| Description | Part Number | |
|----------------------|-------------------|--|
| Peltier Cooler, 121W | MCHPE-200-14-11-E | |

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