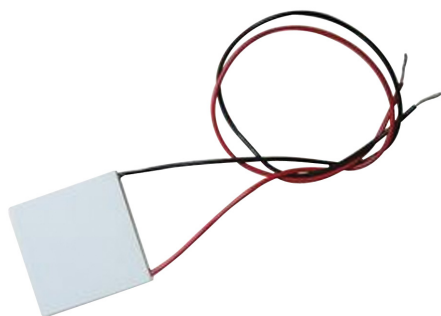


Peltier Cooler - 340W



Features:

Transducer Function: Thermoelectric modules

Specifications:

| Parameters | | Remarks |
|--------------------------|----------------------|---------|
| Internal resistance | $1.9\Omega \pm 10\%$ | Note-1 |
| I _{max.} | 15.4A | Note-2 |
| V _{max.} | 35.8V | Note-3 |
| | Th=27°C | |
| Q _{max.} | 340W | Note-4 |
| ΔT _{max.} | 68°C | Note-5 |
| Solder Melting Point | 138°C | Note-6 |
| Max. Compress | 1MPa | Note-7 |
| Operating Temperature | -90°C to +110°C | |
| External Depth | 3.9mm | |
| External Length / Height | 50mm | |

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

Note-2 Max. current at ΔT_{max}

Note-3 Max. voltage at ΔT_{max}

Note-4 Max. cooling capacity at I_{max.}, V_{max.} and ΔT=0°C

Note-5 Max. temperature difference at I_{max.}, V_{max.} 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)

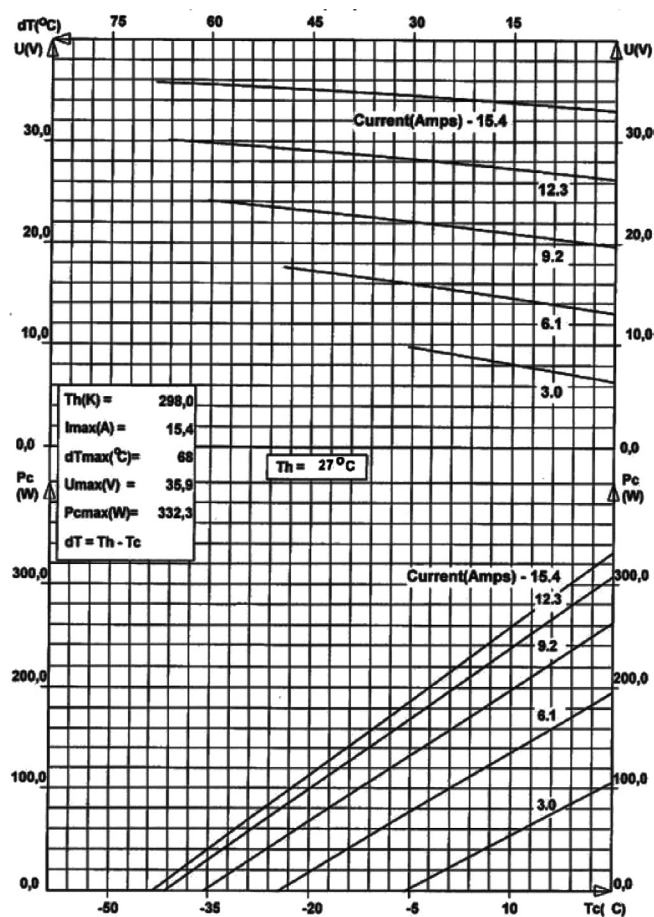
Recommendations:

- 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 I_{max} extremely high COP (coefficient of performance possible)
- Preferable application; high cooling capacity at high temperatures / cycling

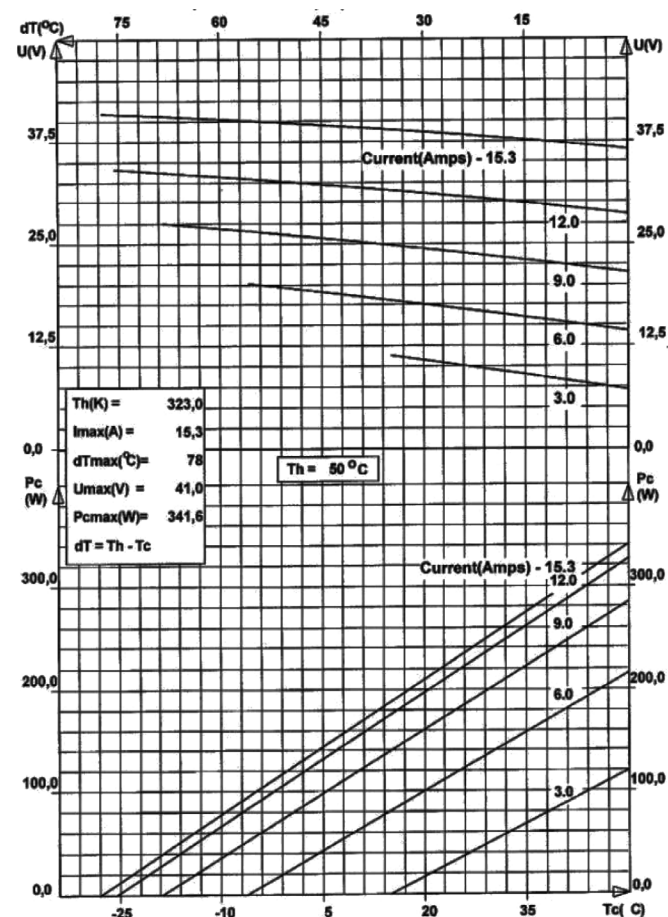
Peltier Cooler - 340W



Performance Graph (298K)



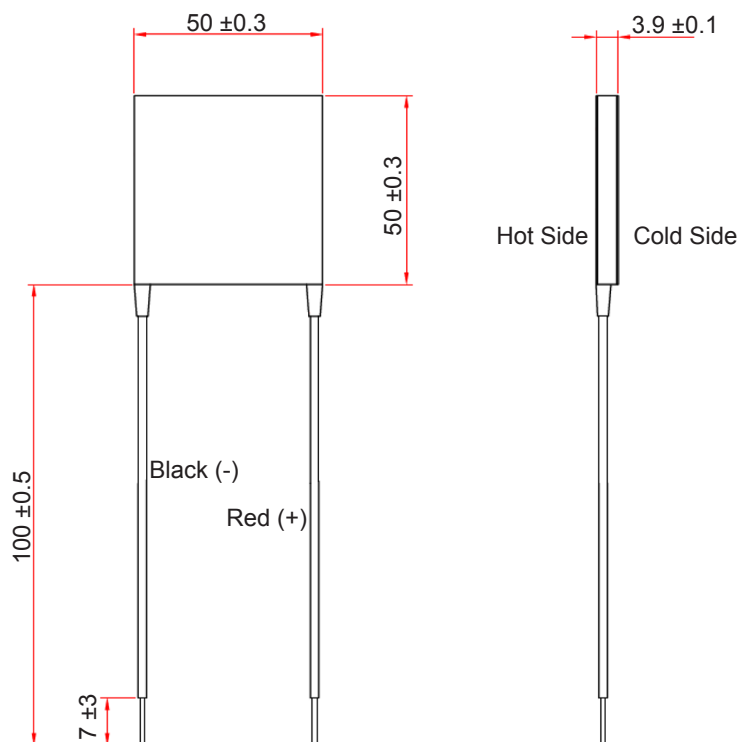
Performance Graph (323K)



Peltier Cooler - 340W



Outline Drawing



Dimensions : Millimetres

Part Number Table

| Description | Part Number |
|----------------------|-------------------|
| Peltier Cooler, 340W | MCHPE-288-14-06-E |

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