

## Features:

Transducer Function: Thermoelectric modules

## Specifications:

Parameters			Remarks
Internal resistance			Note-1
I <sub>max.</sub>	15.4A		Note-2
V <sub>max.</sub>	24.6V		Note-3
	Th=27°C	Th=50°C	
Q <sub>max.</sub>	232W	249.4	Note-4
ΔT <sub>max.</sub>	68°C	78°C	Note-5
Solder Melting Point	138°C		Note-6
Max. Compress	1MPa		Note-7
External Depth	3.7mm		
External Length / Height	40mm		

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

**Note-2** Max. current at ΔT<sub>max</sub>

**Note-3** Max. voltage at ΔT<sub>max</sub>

**Note-4** Max. cooling capacity at I<sub>max.</sub>, V<sub>max.</sub> and ΔT=0°C

**Note-5** Max. temperature difference at I<sub>max.</sub>, V<sub>max.</sub> and Q=0W  
(Max. parameters are measured in a vacuum 1.3P)

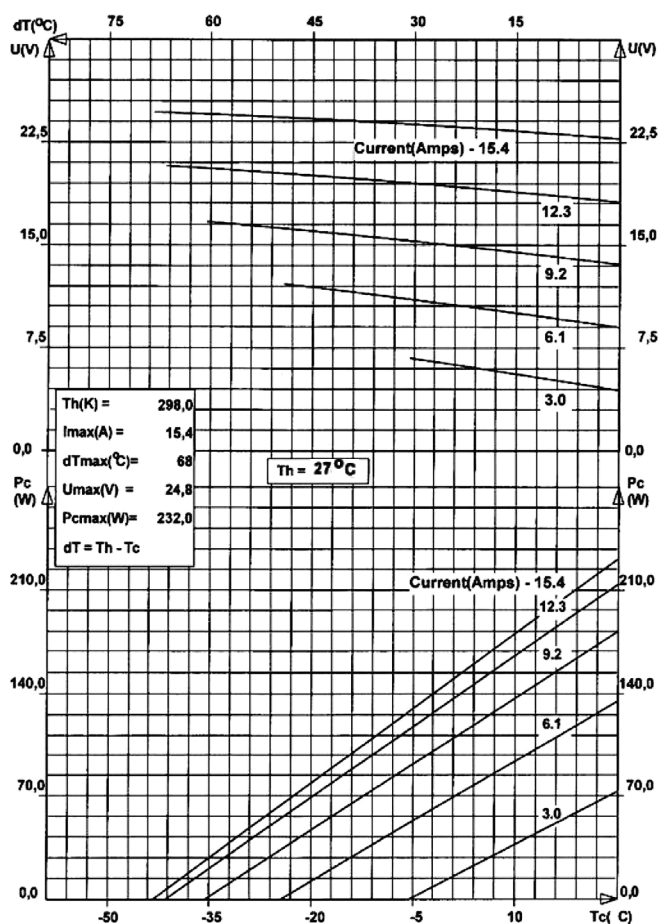
**Note-6** The solder melting point of thermoelectric module

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

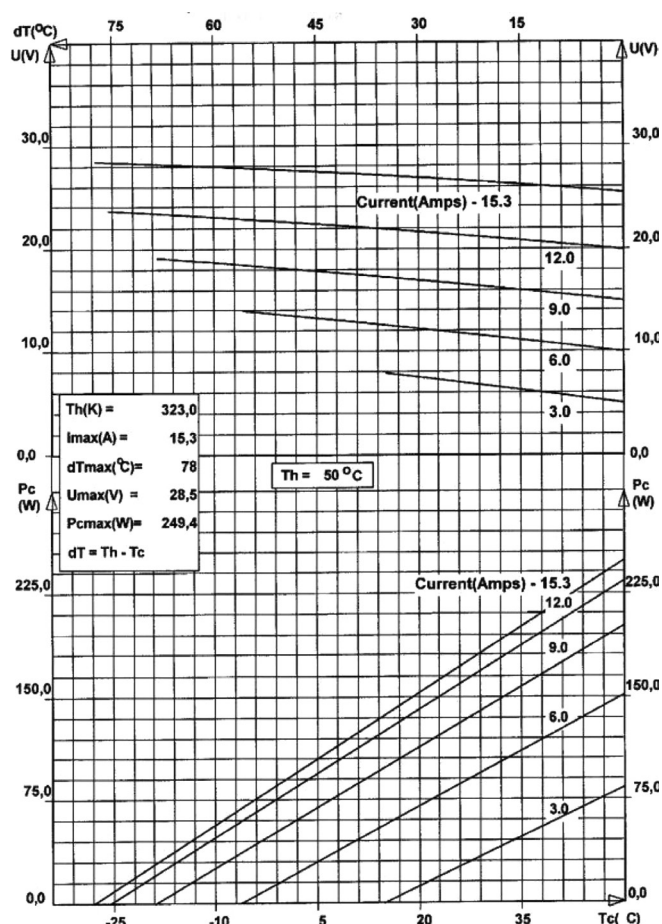
## Recommendations:

- High cooling capacity from a small surface and long lifetime in power cycling applications with change of current polarity
- Operation temperature up to 90°C for long lifetime
- With operation current close to 0.5 I<sub>max</sub> extremely high COP (coefficient of performance possible)

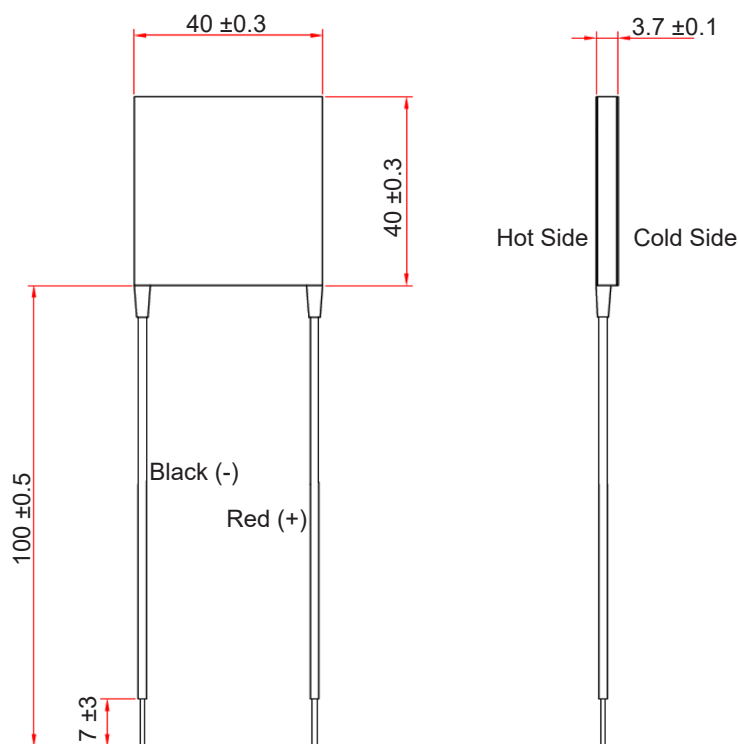
Performance Graph (298K)



Performance Graph (323K)



## Outline Drawing



Dimensions : Millimetres

## Part Number Table

Description	Part Number
Peltier Cooler, 222W	MCHPE-200-14-06-E

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