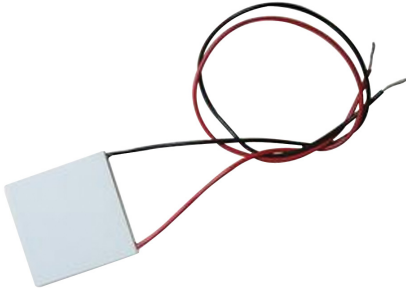


# Peltier Cooler - 150W



## Features:

Transducer Function: Thermoelectric modules

## Specifications:

Parameters		Remarks
Internal resistance	0.85Ω ± 10%	Note-1
I <sub>max.</sub>	8.5A	Note-2
V <sub>max.</sub>	24.6V	Note-3
	Th=25°C	
Q <sub>max.</sub>	150W	Note-4
ΔT <sub>max.</sub>	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	3.8mm	
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  
(Maximum 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)

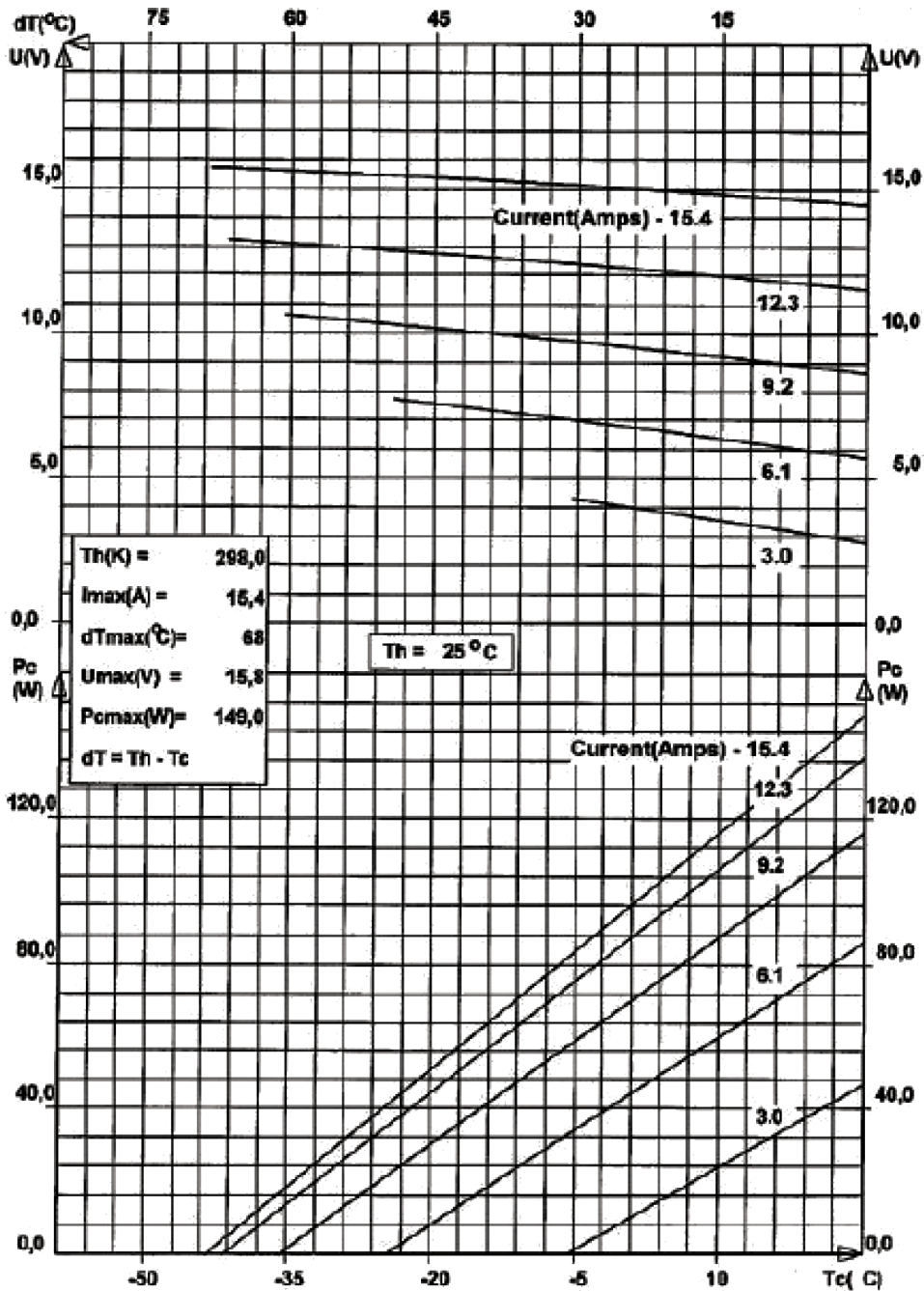
## Recommendations:

- 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<sub>max</sub> extremely high COP (coefficient of performance possible)
- Preferable application; high cooling capacity at high temperatures / cycling

# Peltier Cooler - 150W



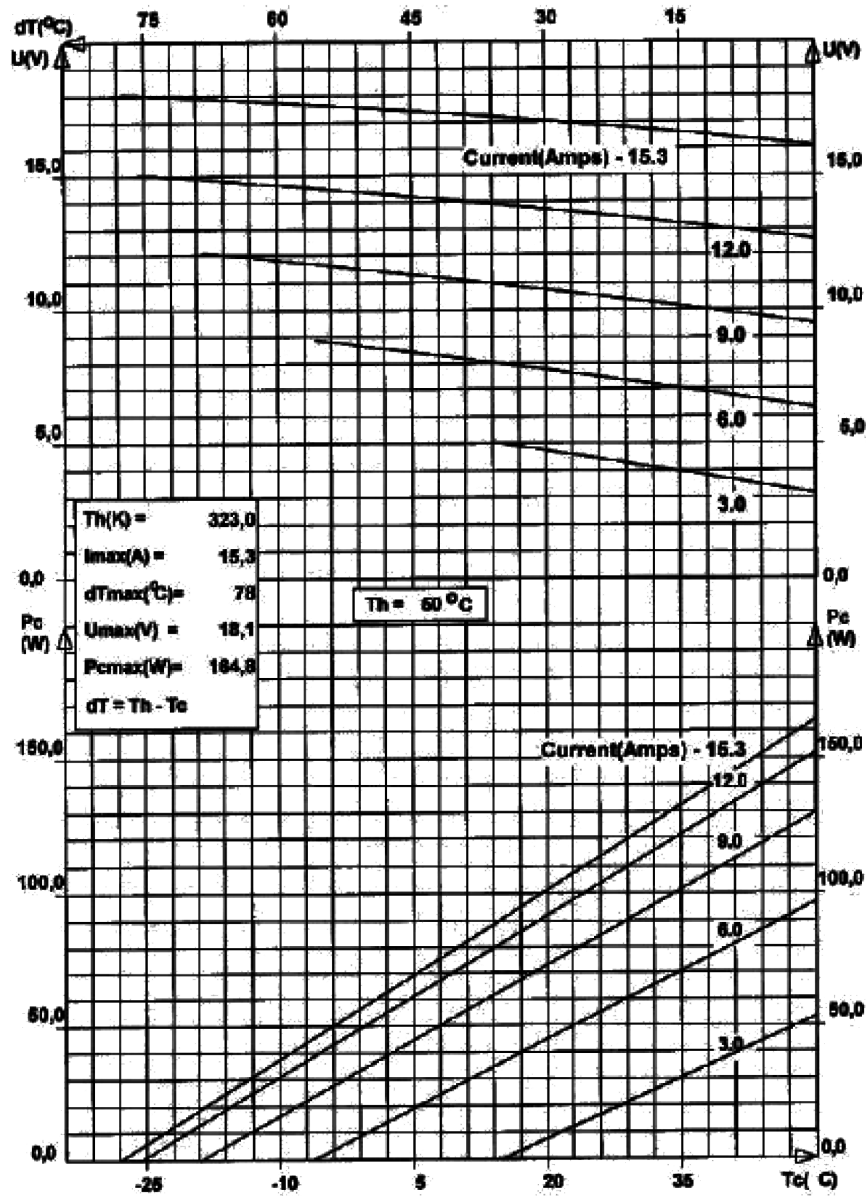
2-3 Performance Graph (298K)



# Peltier Cooler - 150W



## 2-4 Performance Graph (323K)



Part Number Table

Description	Part Number
Peltier Cooler, 150W	MCHPE-127-14-06-E

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