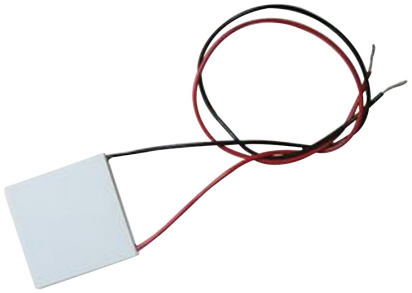
Peltier Cooler - 88W



Features:

Transducer Function: Thermoelectric modules

Specifications:

Parameters			Remarks
Internal resistance	1.4Ω ± 10%		Note-1
Imax.	9A		Note-2
Vmax.	15.8V		Note-3
	Th=27°C		
Qmax.	88W		Note-4
⊿Tmax.	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	3.6mm		
External Length / Height	30mm		

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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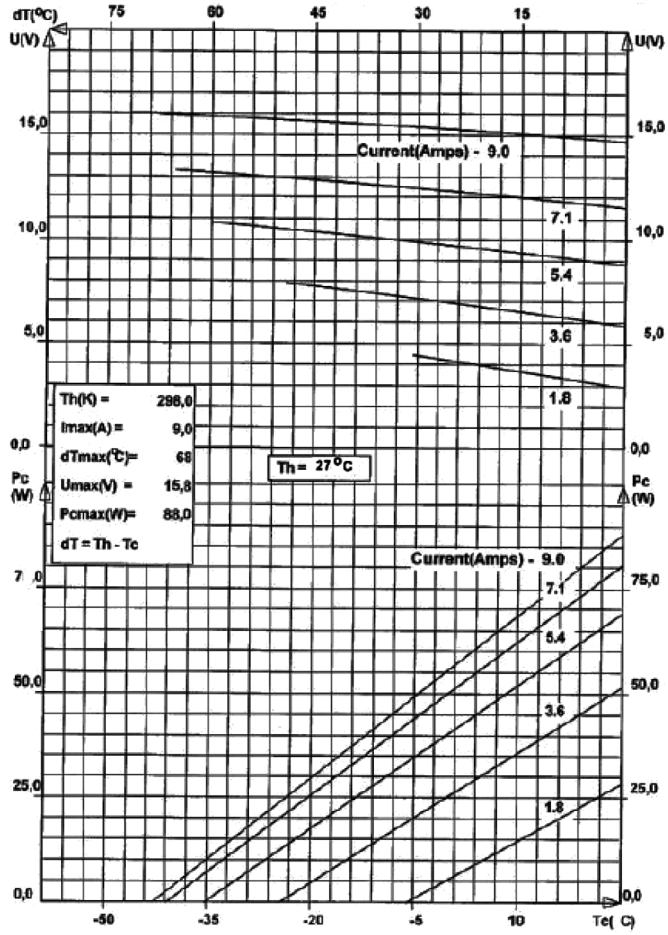
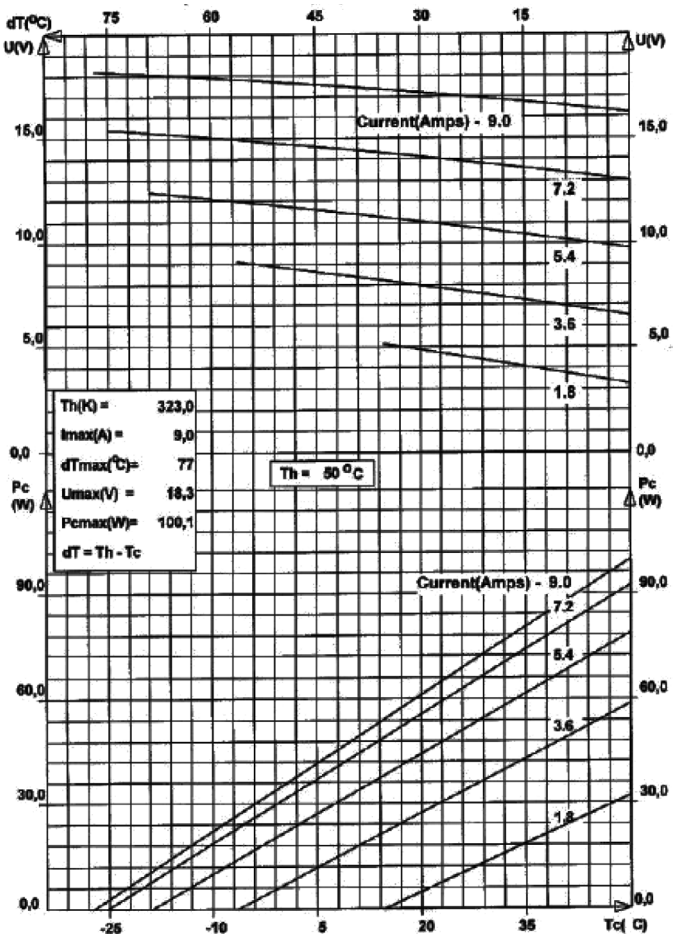
Performance Graph (298K)



Performance Graph (323K)



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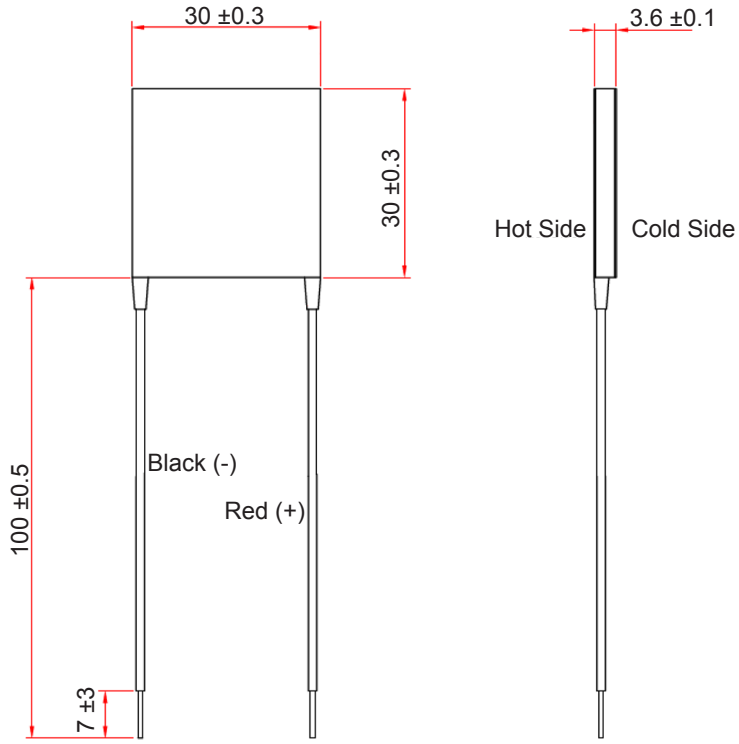
Outline Drawing



Dimensions : Millimetres

Part Number Table

Description	Part Number
Peltier Cooler, 88W	MCHPE-128-10-05-E

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