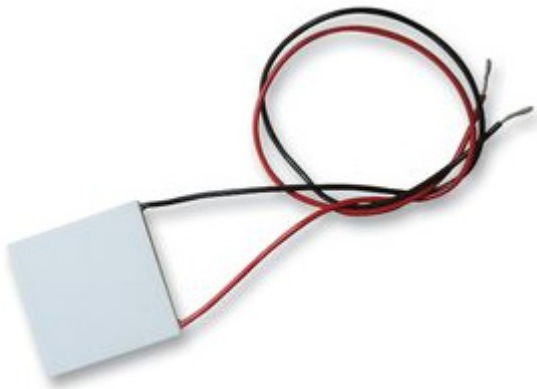


Peltier Density Cooler

High Power



Specifications

Parameters		Remarks
Internal resistance	1.21 Ω $\pm$ 10%	Note - 1
I max.	6 A	Note - 2
V max.	8.9 V	Note - 3
	Th = 25°C	
Q max.	32.1 W	Note - 4
Δ T max.	69°C	Note - 5
Solder melting point	138 °C	Note - 6
Maximum compress	1 MPa	Note - 7

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

Note - 2 : Maximum current at Δ T max

Note - 3 : Maximum voltage at Δ T max

Note - 4 : maximum cooling capacity at I max., V max. and Δ T = 0°C

Note - 5 : Maximum temperature difference at I max., V max. and Q = 0 W
(Maximum parameters are measured in a vacuum 1.3 P)

Note - 6 : The solder melting point of thermoelectric module

Note - 7 : Recommended maximum compression (not destruction limit)

Recommendations

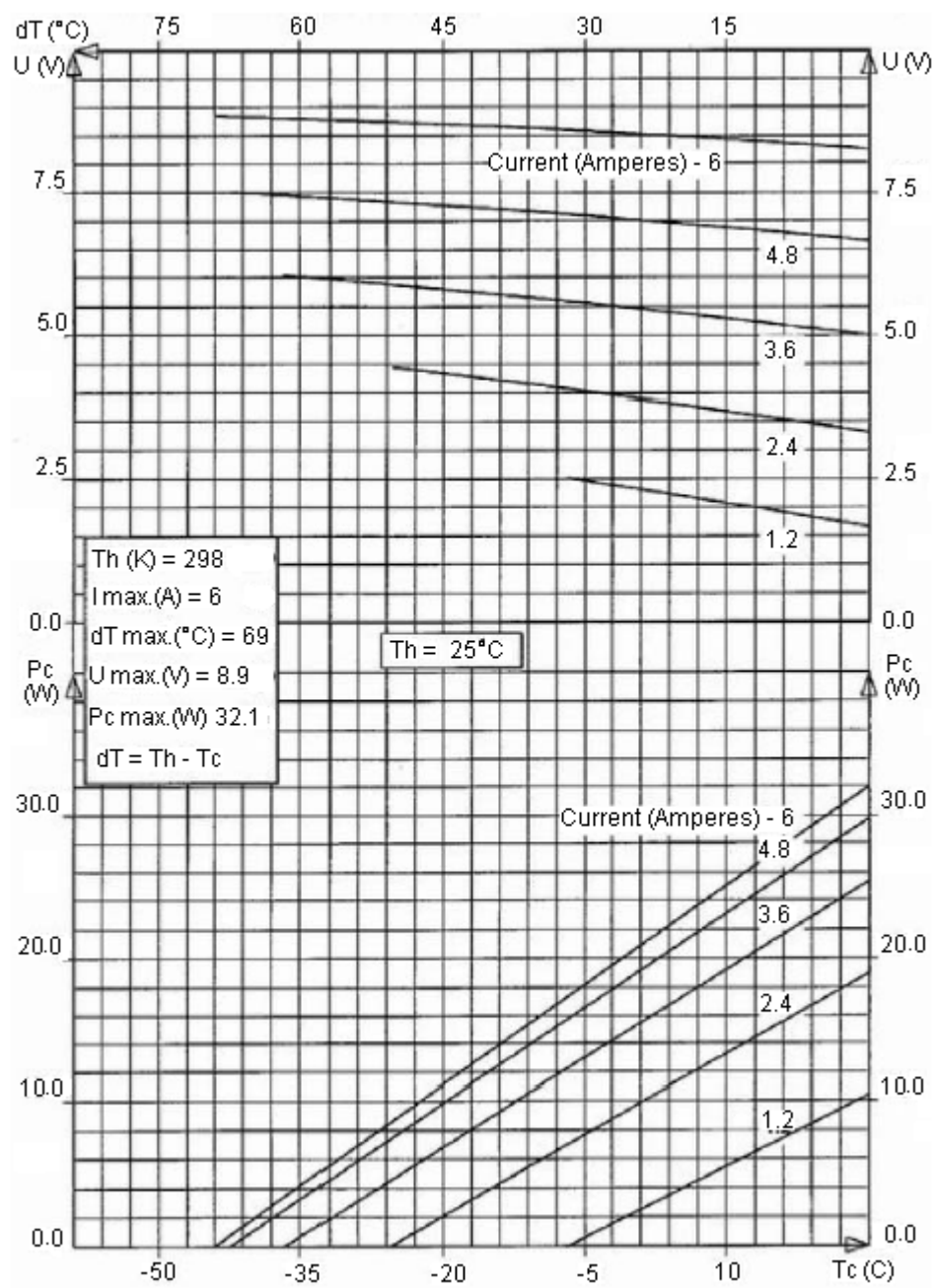
- High cooling capacity from a small surface and long lifetime in power cycling applications with change of current polarity
- Operation temperature up to 90°C for long lifetime
- With operation current close to 0.5 I max extremely high COP (coefficient of performance possible)

Peltier Density Cooler

High Power



Performance Graph (298K)

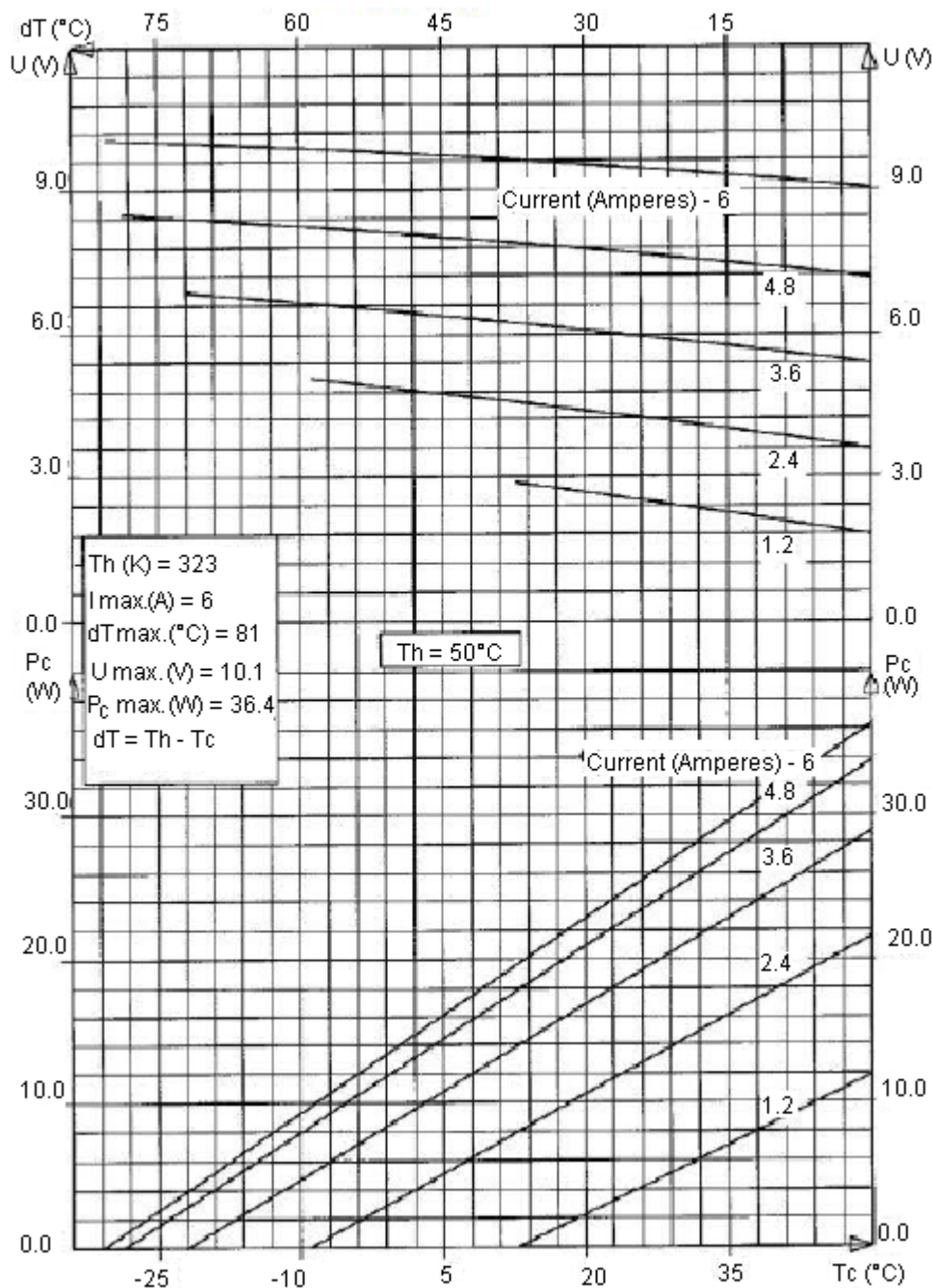


Peltier Density Cooler

High Power



Performance Graph (323K)



Part Number Table

Description	Part Number
Peltier Cooler, 30 W	MCHPE-071-10-08-E

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