

Features:

Transducer Function: Thermoelectric modules

Specifications:

Parameters		Remarks
Internal resistance	1.21Ω ±10%	Note-1
I _{max.}	6A	Note-2
V _{max.}	8.8V	Note-3
-	Th=27°C	-
Q _c max.	30W	Note-4
ΔT _{max.}	69°C	Note-5
Solder Melting Point	138°C	Note-6
Max. Compress	1MPa	Note-7
Operating Temperature	-90°C to +100°C	
External Depth	3.1mm	
External Length / Height	20mm	

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)

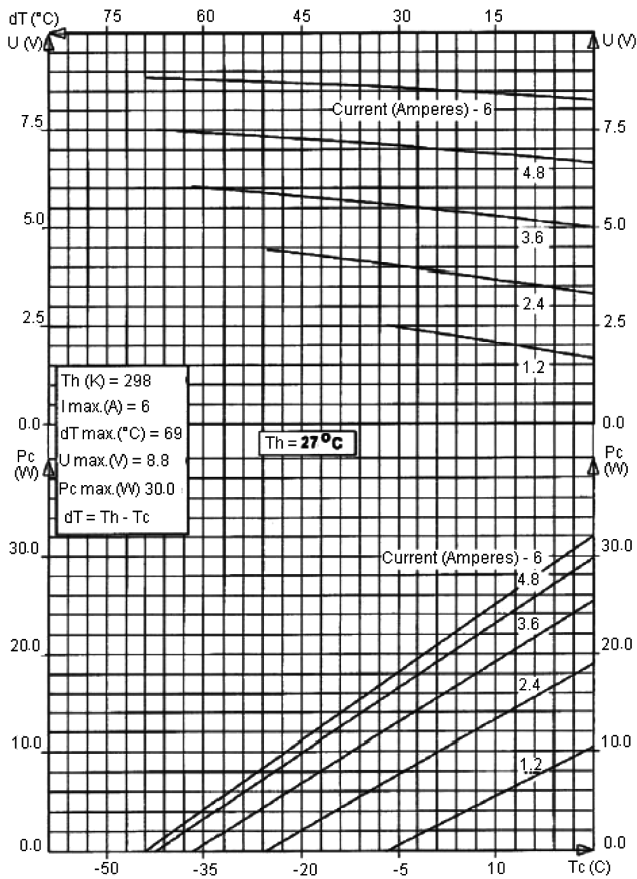
Note-6 The solder melting point of thermoelectric module

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

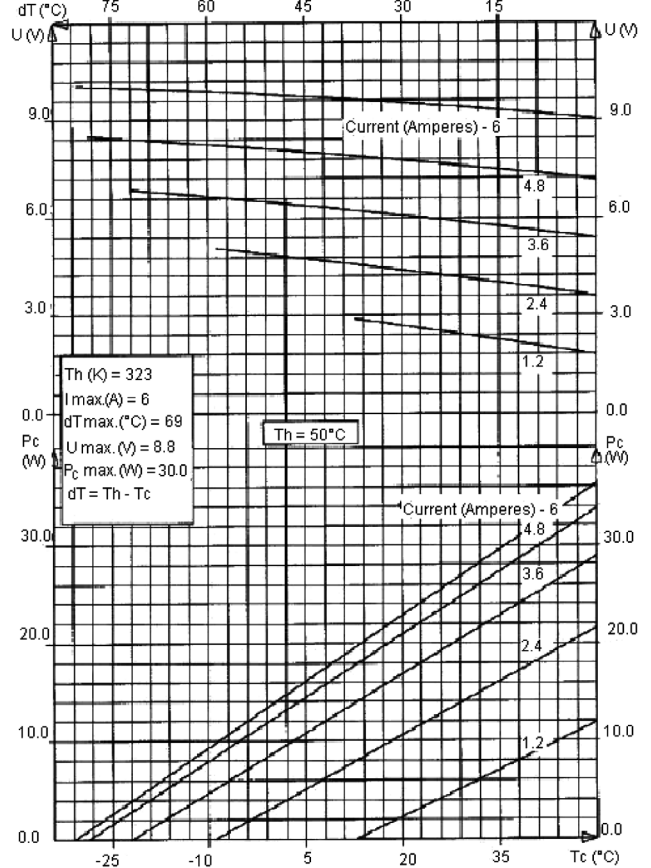
Recommendations:

- High cooling capacity from a small surface and long lifetime in power cycling applications with change of current polarity
- 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)

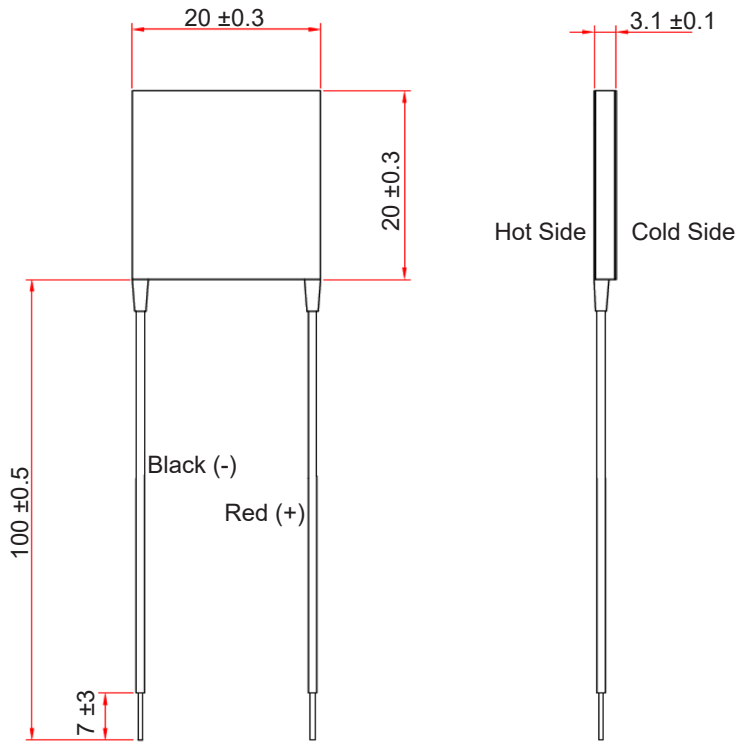
Performance Graph (298K)



Performance Graph (323K)



Outline Drawing



Dimensions : Millimetres

Part Number Table

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

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