



Feature

Transducer Function: Thermoelectric modules

Specifications

Parameters			Remarks
Internal resistance	0.85Ω ± 10%		Note-1
lmax.	15.4A		Note-2
Vmax.	15.7V		Note-3
-	Th=25°C	-	-
Qc max.	150W	-	Note-4
ΔTmax.	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	30mm		

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

Note-2 Max. current at ΔT max

Note-3 Max. voltage at ∆Tmax

Note-4 Max. cooling capacity at Imax., Vmax. and ΔT=0°C

Note-5 Max. temperature difference at Imax.,Vmax. 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

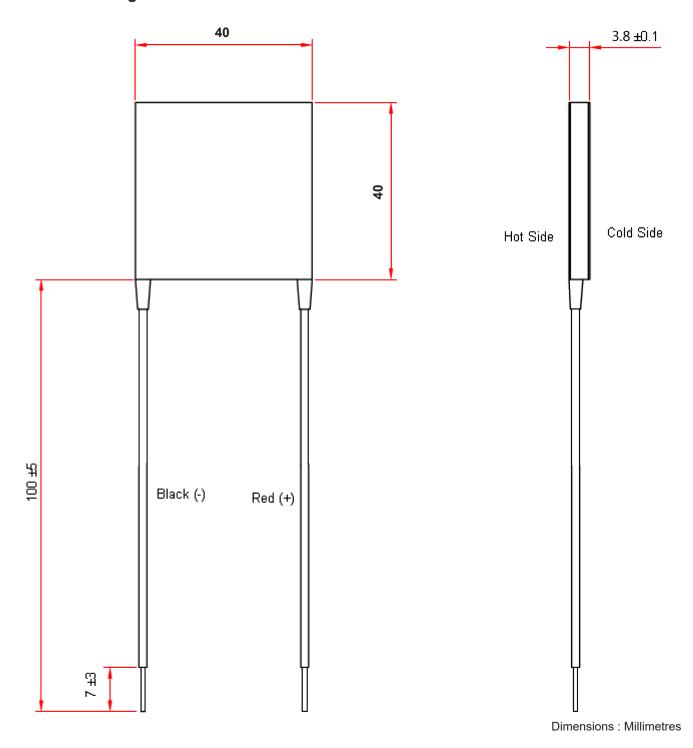
- · High cooling capacity from a small surface and long lifetime in power cycling applications with change of current polarity
- Operation temperature up to 90°C for long lifetime; up to 110°C for short periods
- With operation current close to 0.5 I max. extremely high COP (coefficient of performance possible)
- · Preferable application; high cooling capacity at high temperatures / cycling
- · Epoxy sealed for moisture protection

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Outline Drawing

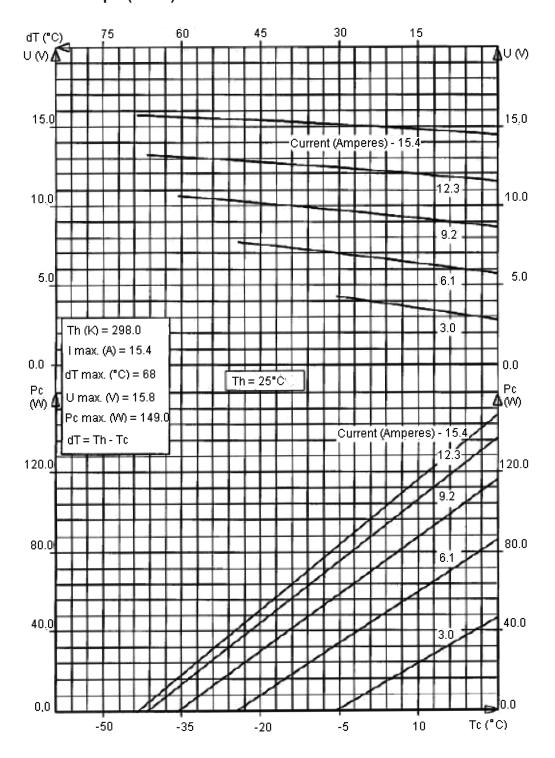


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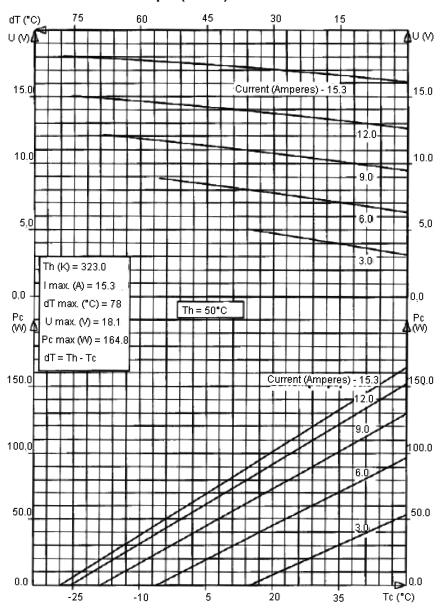
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2-3 Performance Graph (298K)



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2-4 Performance Graph (323K)



Part Number Table

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

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