

Scope

This specification is applied to Multicomp thermoelectric modules Revision of these specifications is carried out after consent

Specifications

Para	Remarks		
Internal resistance	1.4 Ω	Note-1	
I max.	9	Note-2	
V max.	15.	Note-3	
-	Th = 25°C	-	-
Q max.	88 W	-	Note-4
ΔT max.	max. 68°C -		Note-5
Solder melting point	138	Note-6	
Maximum compress	1 M	Note-7	

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

Note-2 : Maximum current at ΔT max.

Note-3 : Maximum voltage at ΔT max.

Note-4 : Maximum cooling capacity at I max. V max. and $\Delta T = 0^{\circ}C$

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:

Specification Table

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

Thot = $27^{\circ}C$

Epoxy sealed for moisture protection

I max. (A)	U max. (V)	Qc max. W	dT max. °C	Α	В	Н	Part Number		
9	15.8	88	68	30	30	3.6	MCHPE-128-10-05-E		

Dimensions : Millimetres







Outline Drawing 40 ±0.3 3.7 ±0.1 40 ±0.3 12712 XXXXXXXXX Cold Side Hot Side 0 お Black (-) Red (+) 7 ±3

Dimensions : Millimetres



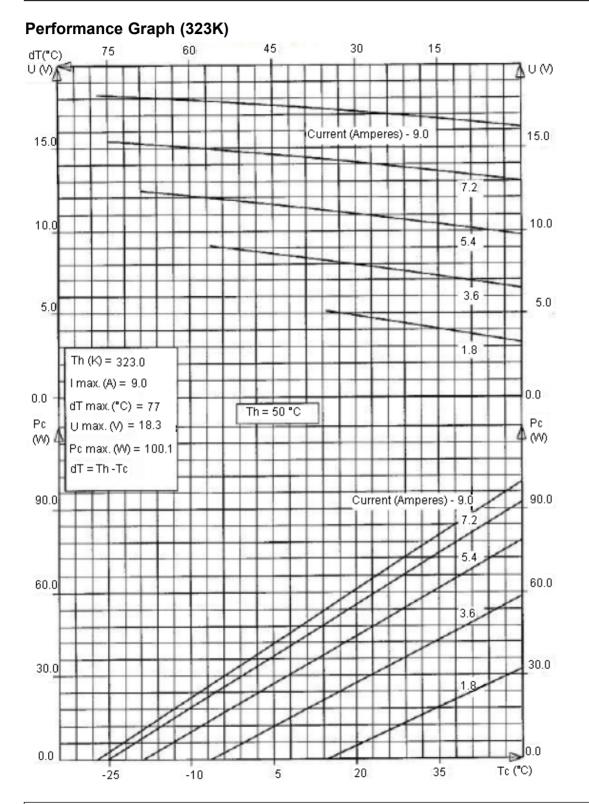


Performance Graph (298K) 75 60 dT (°C) 45 30 15 UMA NUM 15.0 15.0 Current (Amperes) - 9.0 7.1 10.0 10.0 5.4 5.0 5.0 3.6 Th (K) = 298.0 1.8 I max.(A) = 9.0 0.0 0,0 dT max.(°C) = 68 Th = 25°C Pc (W) A(₩) U max. (V) = 15.0 Pc max. (W) = 88.3 dT = Th -Tc Current (Amperes) - 9.0 75.0 75.0 7.1 5.4 50.0 50.0 3.6 25.0 25.0 1.8 0.0 0.0 Tc (°C) -20 -50 -35 -5 10

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