Thermoelectric Module



Scope

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

Specifications

Para	Remarks		
Internal resistance	1.03 Ω	Note-1	
I max.	3.2	Note-2	
V max.	3.8	Note-3	
-	Th = 25°C	-	-
Q max.	7.3 W	-	Note-4
∆T max.	72°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

Maximum temperature for short time : 110°C Operation temperature up to 90°C for long lifetime Good reliability in ON-OFF mode Recommended operation current not higher than 0.7 of I max.

Specification Table	Thot =				
I max. (A) U max. (V)	Qc max. W	dT max. °C	Α	В	н

I max. (A)	U max. (V)	Qc max. W	dT max. °C	Α	В	н	Part Number
3.2	3.8	7.5	74	15	15	3.8	MCPE-031-10-15

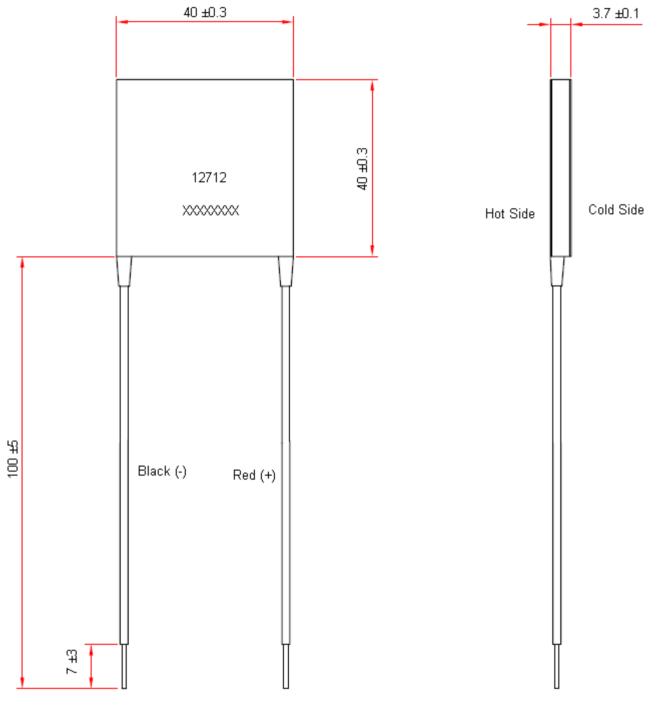
Dimensions : Millimetres



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Outline Drawing



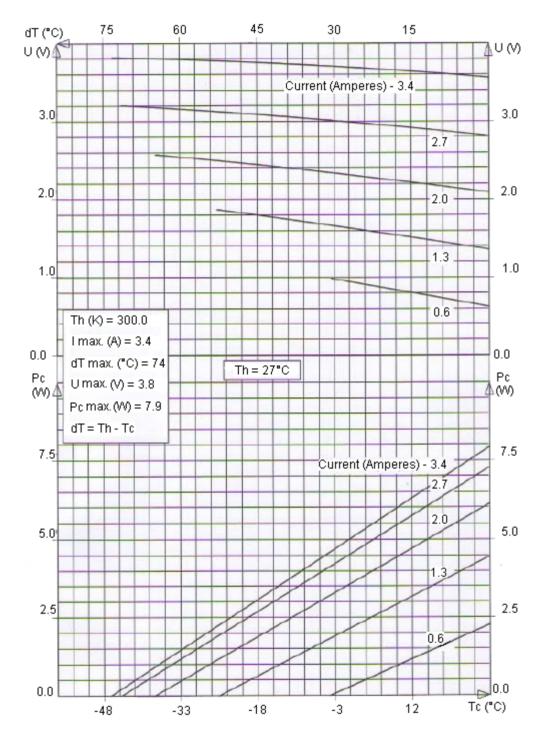
Dimensions : Millimetres



Thermoelectric Module



Performance Graph



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