## 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	6.9 Ω	Note-1	
I max.	2	Note-2	
V max.	15.	Note-3	
-	Th = 25°C	-	-
Q max.	19 W	-	Note-4
ΔT max.	73°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  $\Delta T$  max. Note-3 : Maximum voltage at  $\Delta T$  max.

Note-4 : Maximum cooling capacity at I max. V max. and  $\Delta T$  = 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

Maximum temperature for short time :  $110^{\circ}$ C Operation temperature up to  $90^{\circ}$ C for long lifetime

Good reliability in ON-OFF mode

Recommended operation current not higher than 0.7 of I max.

## **Specification Table** Thot = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C	Α	В	Н	Part Number
2	15.7	19.6	75	30	30	4.8	MCPE-127-10-25

Dimensions : Millimetres



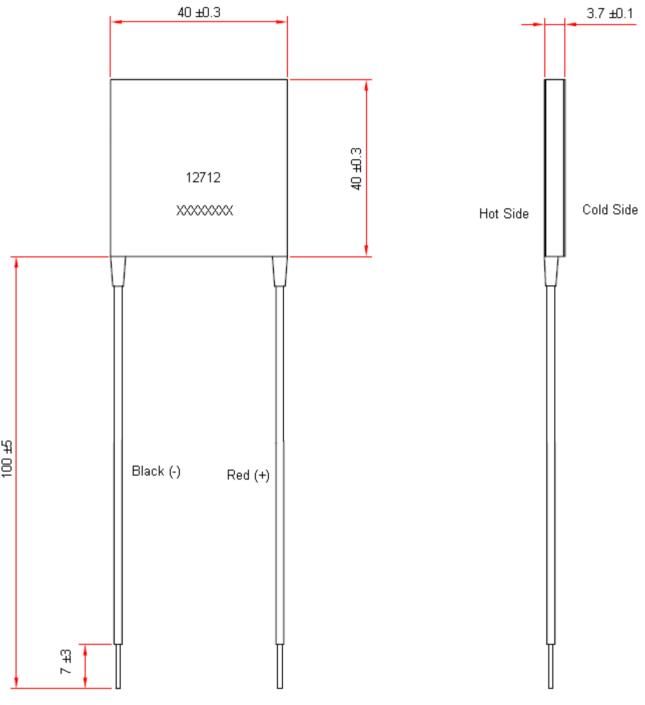
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# **Thermoelectric Module**



## **Outline Drawing**



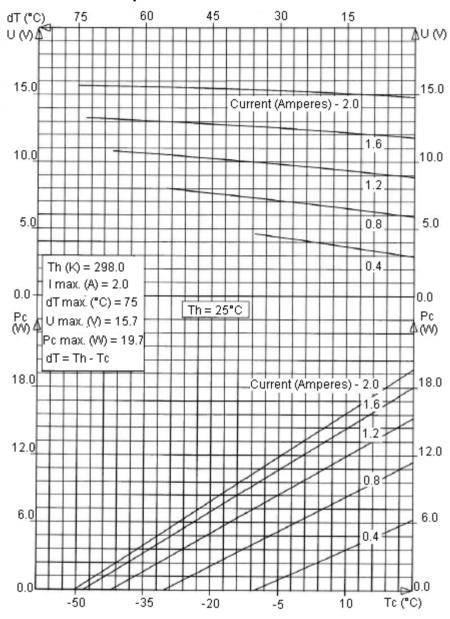
Dimensions : Millimetres



# Thermoelectric Module



### **Performance Graph**



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