

#### Scope

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

#### **Specifications**

Para	Remarks			
Internal resistance	3.1 Ω	Note-1		
I max.	9	Note-2		
V max.	35.	Note-3		
-	Th = 25°C	-	-	
Q max.	196 W	-	Note-4	
ΔT 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  $\Delta T$  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:**

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

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

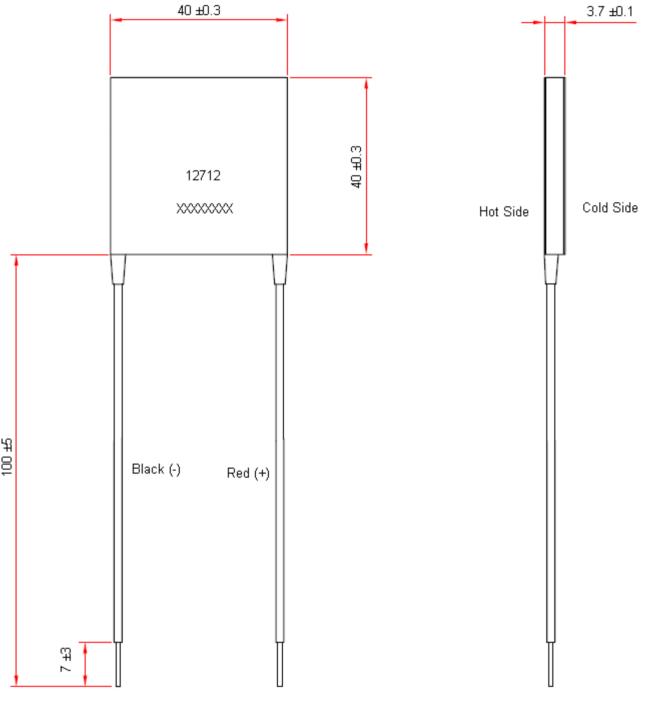
I max. (A)	U max. (V)	Qc max. W	dT max. °C	Α	В	н	Part Number
9	35.9	196	68	40	40	3.1	MCHPE-288-10-05-E

Dimensions: Millimetres





### **Outline Drawing**

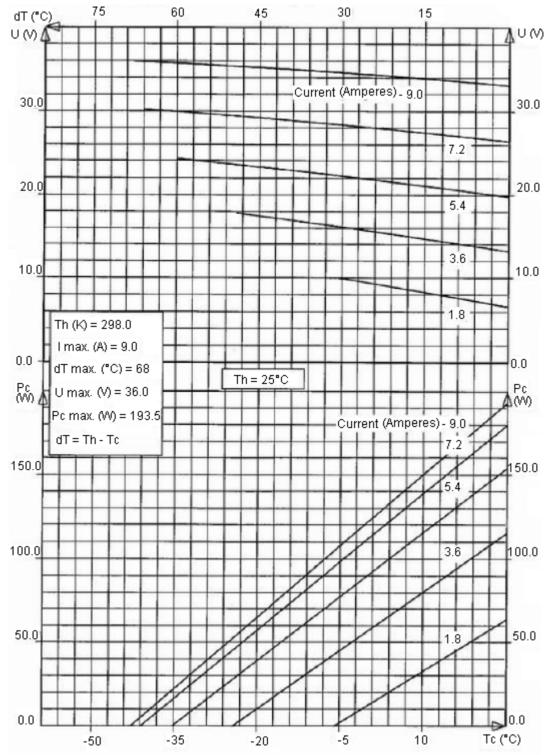


Dimensions : Millimetres





### Performance Graph (298K)

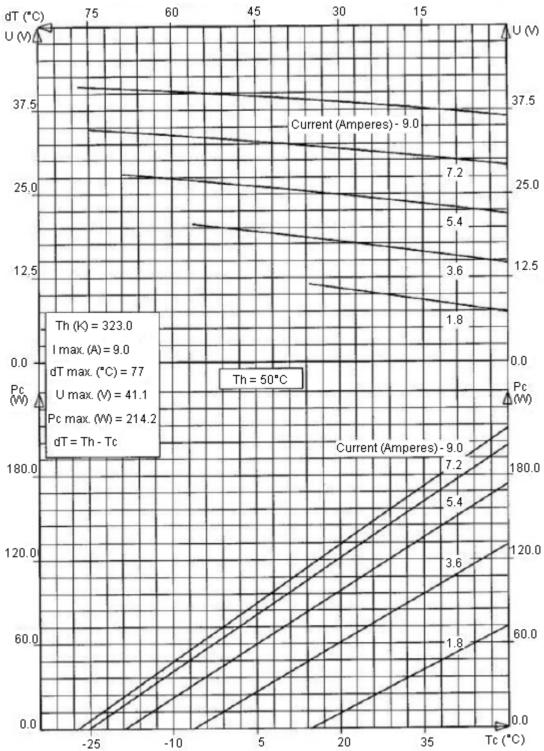




03/11/11 V1.1



### Performance Graph (323K)



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