

Scope

This specification is applied to thermoelectric modules supplied by GCS Revision of these specifications is carried out after consent

Specifications

Para	Remarks		
Internal resistance		Note-1	
I max.	15.	Note-2	
V max.	24.	Note-3	
-	Th = 25°C	Th = 50°C	-
Q max.	232 W	249.4 W	Note-4
ΔT max.	68°C	78	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

Thot = 27°C

(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;

With operation current close to 0.5 I max. extremely high COP (coefficient of performance possible) Epoxy sealed for moisture protection

Specification Table

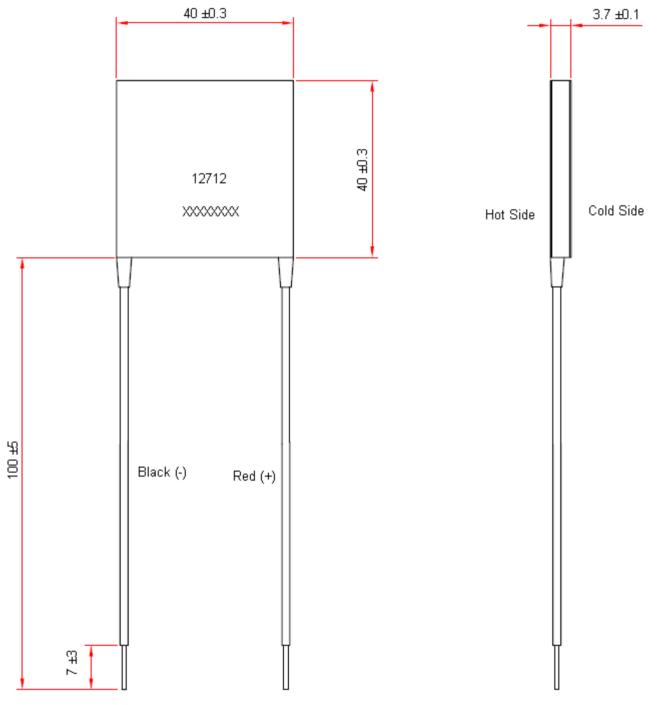
I max. (A)	U max. (V)	Qc max. W	dT max. °C	Α	В	н	Part Number
15.4	24.6	222	68	40	40	3.7	MCHPE-200-14-06-E

Dimensions : Millimetres





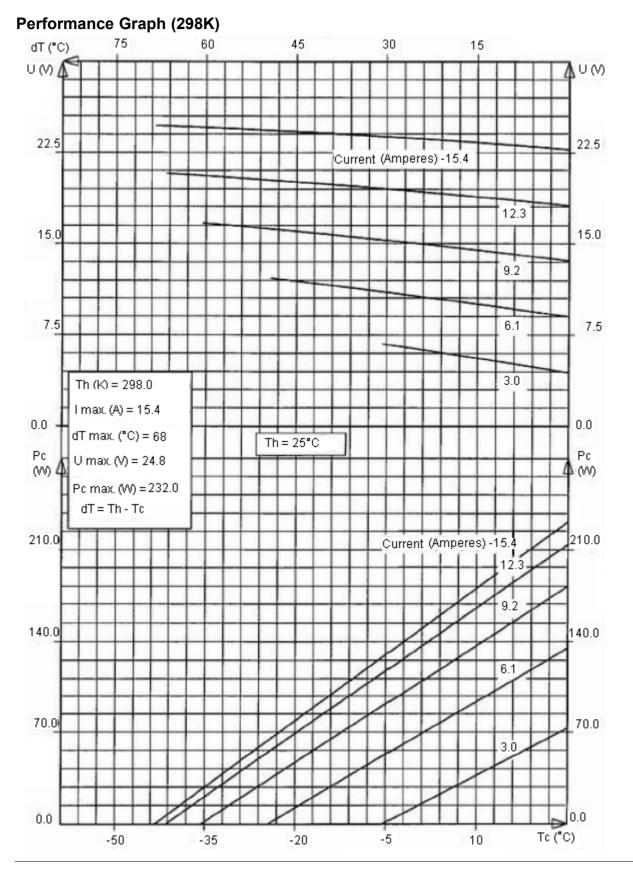
Outline Drawing



Dimensions : Millimetres









Performance Graph (323K)



75 60 45 30 15 dT (°C) NUM UM 30.0 30.0 Current (Amperes) -15.3 20.0 20.0 12.0 9.0 10.0 10.0 6.0 Th (K) = 323.0 3.0 I max. (A) = 15.3 0.0 0.0 dT max. (°C) = 78 Th = 50°C Ρc Ρ¢ U max. (V) = 28.5 4(~) (\mathcal{M}) Pc max. (W) = 249.4 dT = Th - Tc 225.0 225.0 Current (Amperes) -15.3 112.0 9.0 150.0 150.0 6.Ū 75.0 75.0 3.0 0.0 0.0 Tc (°C) -10 20 35 5 -25

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Famell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Famell plc 2011.



www.element14.com www.farnell.com www.newark.com