

Thermoelectric Module



Scope

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

Specifications

Parameters		Remarks
Internal resistance	1.03 Ω $\pm$ 10%	Note-1
I max.	3.2 A	Note-2
V max.	3.8 V	Note-3
-	Th = 25°C	-
Q max.	7.3 W	Note-4
Δ T max.	72°C	Note-5
Solder melting point	138°C	Note-6
Maximum compress	1 MPa	Note-7

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

Note-2 Maximum current at Δ T max.

Note-3 Maximum voltage at Δ T max.

Note-4 Maximum cooling capacity at I max. V max. and Δ 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°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 = 27°C

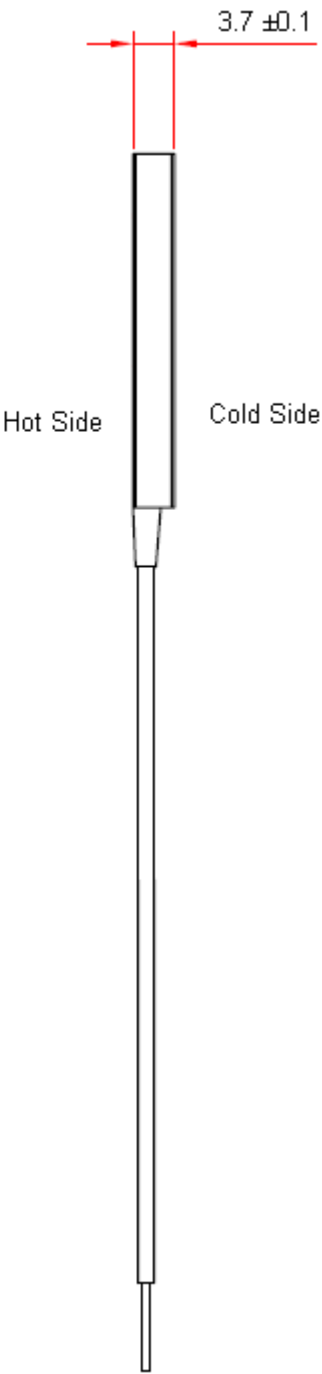
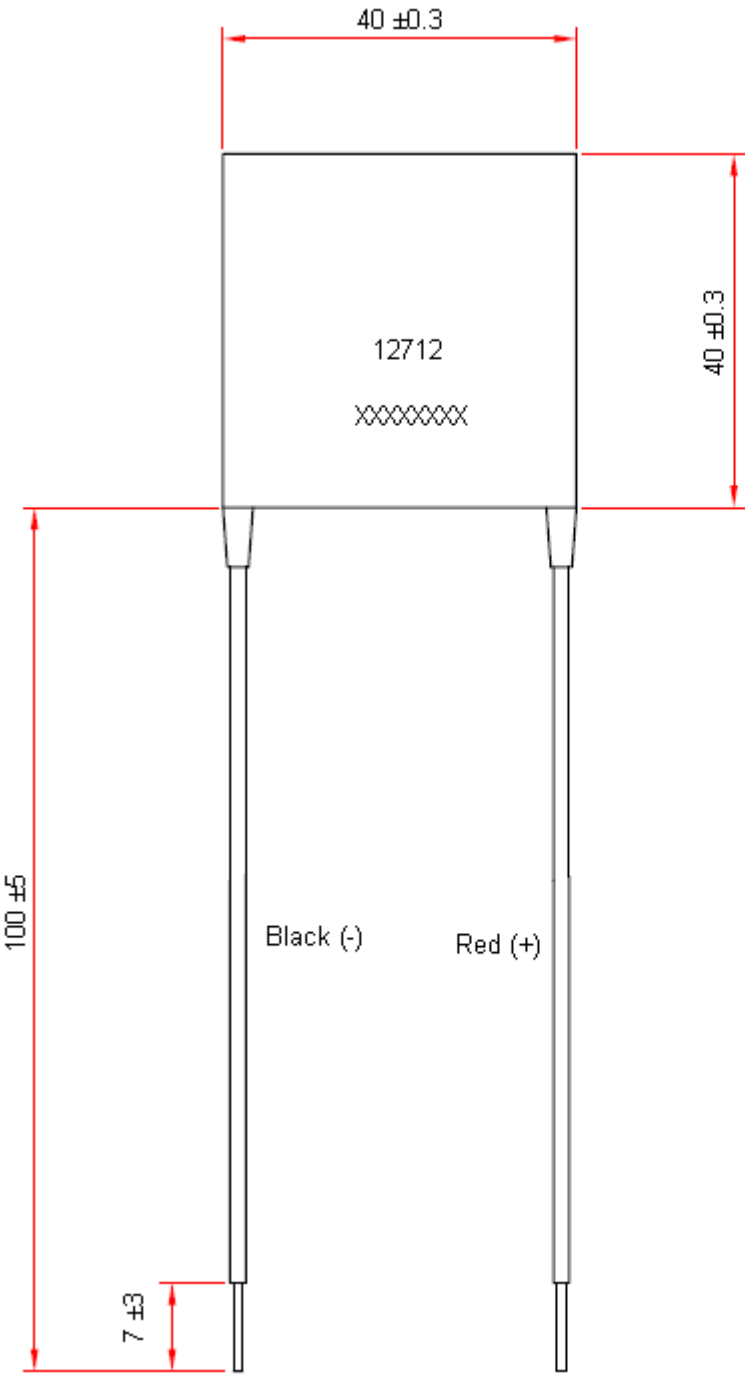
I max. (A)	U max. (V)	Qc max. W	dT max. °C	A	B	H	Part Number
3.2	3.8	7.5	74	15	15	3.8	MCPE-031-10-15

Dimensions : Millimetres

Thermoelectric Module



Outline Drawing



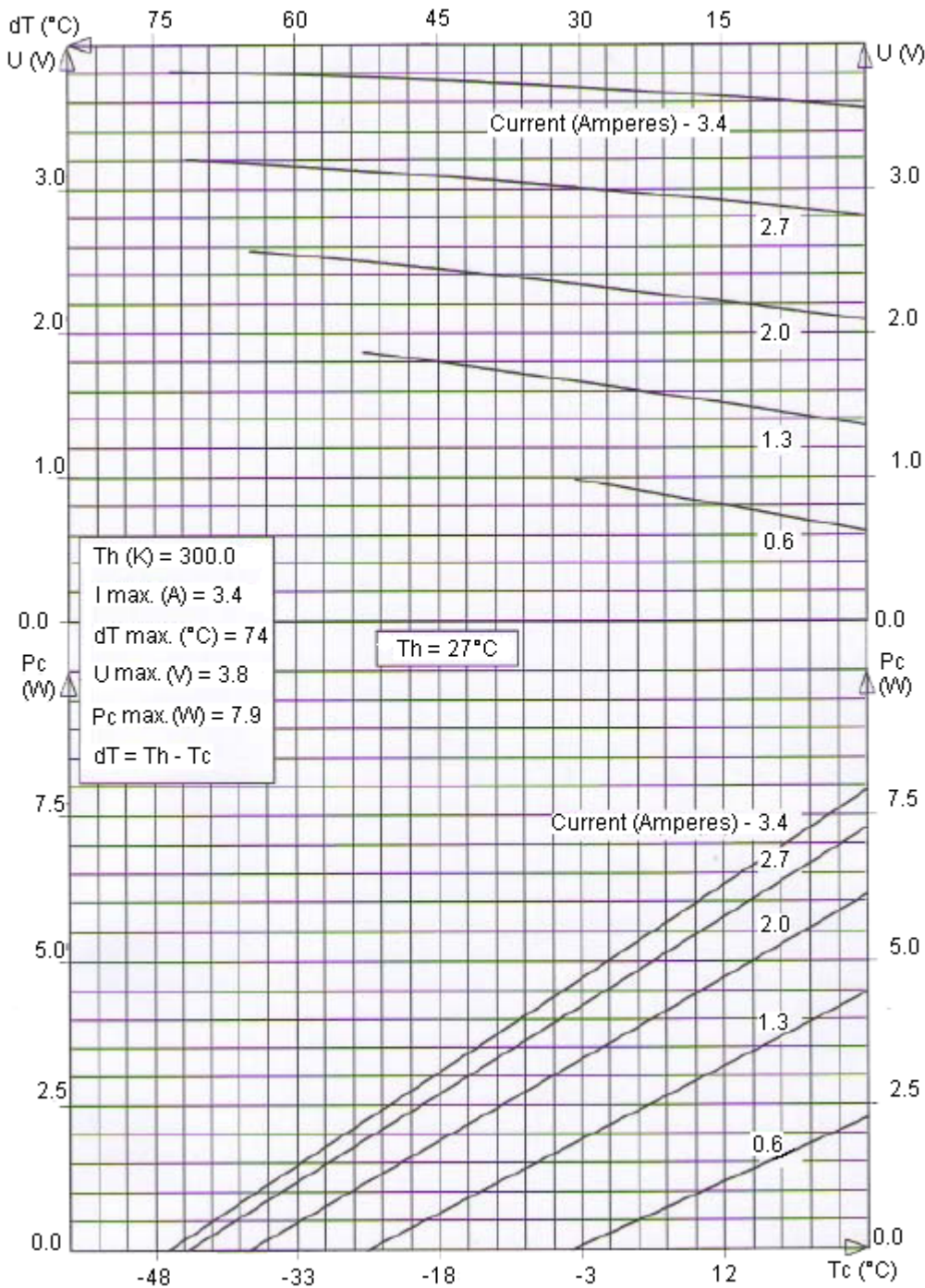
Dimensions : Millimetres



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Performance Graph



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