

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	$6.8 \Omega \pm 10\%$	Note-1
I max.	3.9 A	Note-2
V max.	29.9 V	Note-3
-	Th = 25°C	-
Q max.	71.8 W	Note-4
ΔT max.	74°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 ΔT max.

Note-3 : Maximum voltage at ΔT max.

Note-4 : Maximum cooling capacity at I max. V max. and $\Delta T = 0^\circ\text{C}$

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

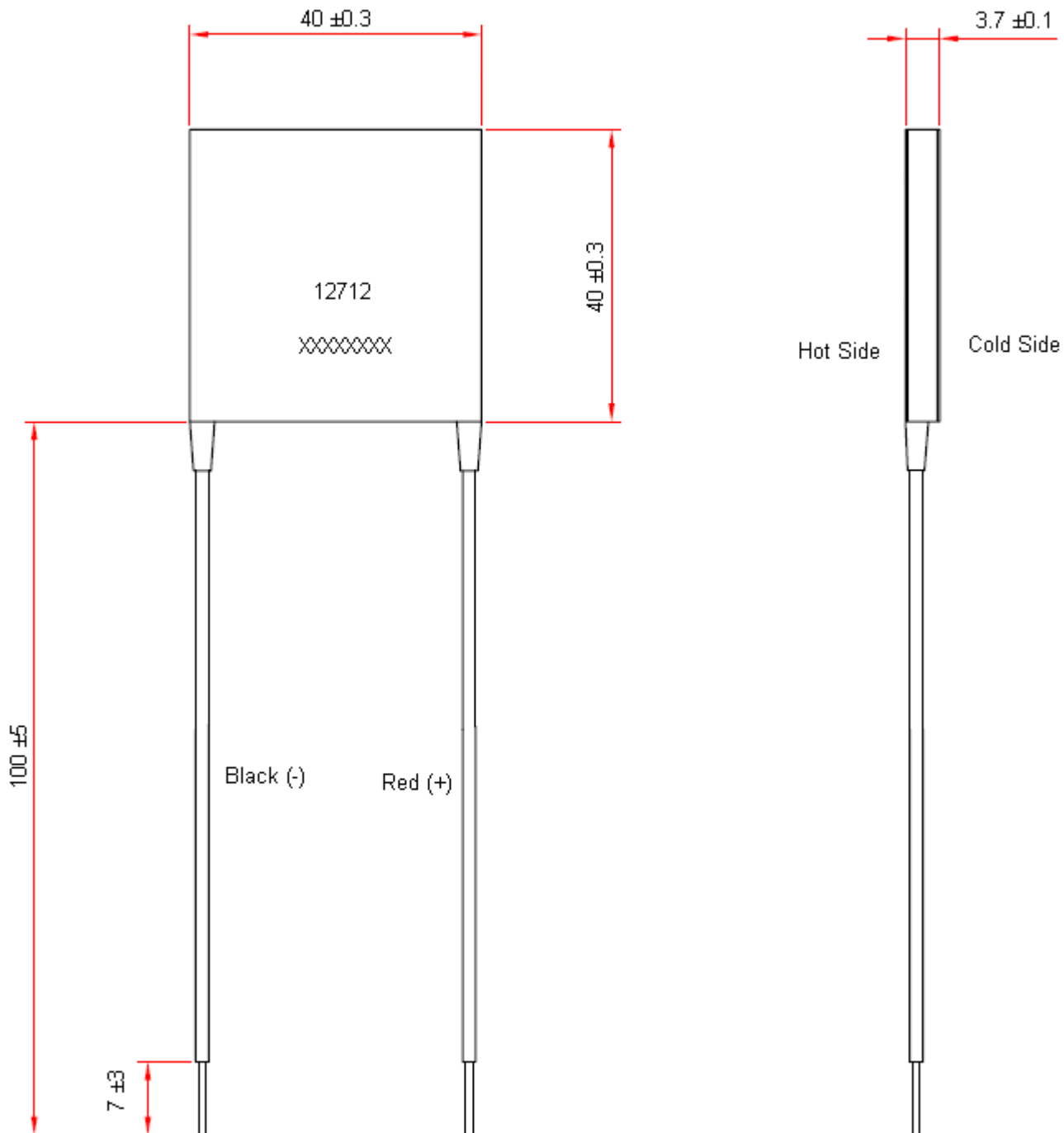
Thot = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C	A	B	H	Part Number
3.9	29.8	71.8	74	40	40	3.6	MCPE-241-10-13

Dimensions : Millimetres

Thermoelectric Module

Outline Drawing



Dimensions : Millimetres

Thermoelectric Module

Performance Graph

