

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	0.35 Ω \pm 10%	Note-1
I max.	8.5 A	Note-2
V max.	3.8 V	Note-3
-	Th = 27°C Th = 50°C	-
Q max.	18.8 W 20.8 W	Note-4
Δ T max.	70°C 77°C	Note-5
Solder melting point	235°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)

Specification Table Thot = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C	A	B	H	Part Number
8.5	3.8	18.8	70	20	20	3.4	MCPE1-03108NC-S

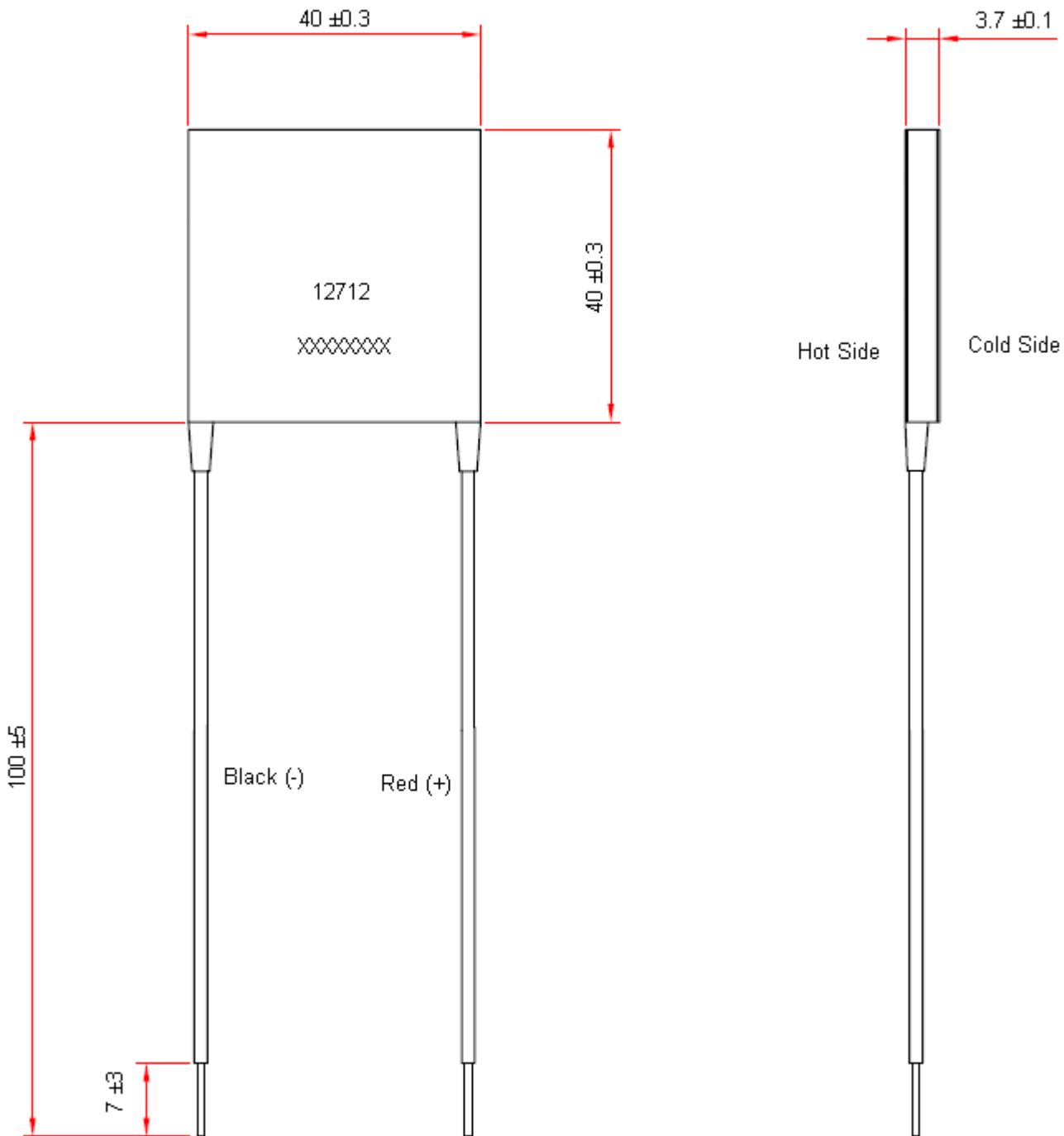
Dimensions : Millimetres

PE1 Modules have specification of -40 to +100°C operation, and are silicone sealed for moisture protection

Thermoelectric Module



Outline Drawing



Dimensions : Millimetres

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