

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	2.2 Ω \pm 10%	Note-1
I max.	6 A	Note-2
V max.	15.7 V	Note-3
-	Th = 27°C Th = 50°C	-
Q max.	55.6 W 61 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)

Recommendations:

Operating range : -40°C to +100°C

Dropping or exerting mechanical shock will cause breakage, take care in handling

Thinly spread thermally conductive grease should be placed between module and heat exchanger

Surface deviation from flatness should be kept under 0.02 mm

For optimum reliability and performance it is recommended that the module be utilised < 0.7 I max.

Silicone sealed for moisture protection

Specification Table

Thot = 27°C

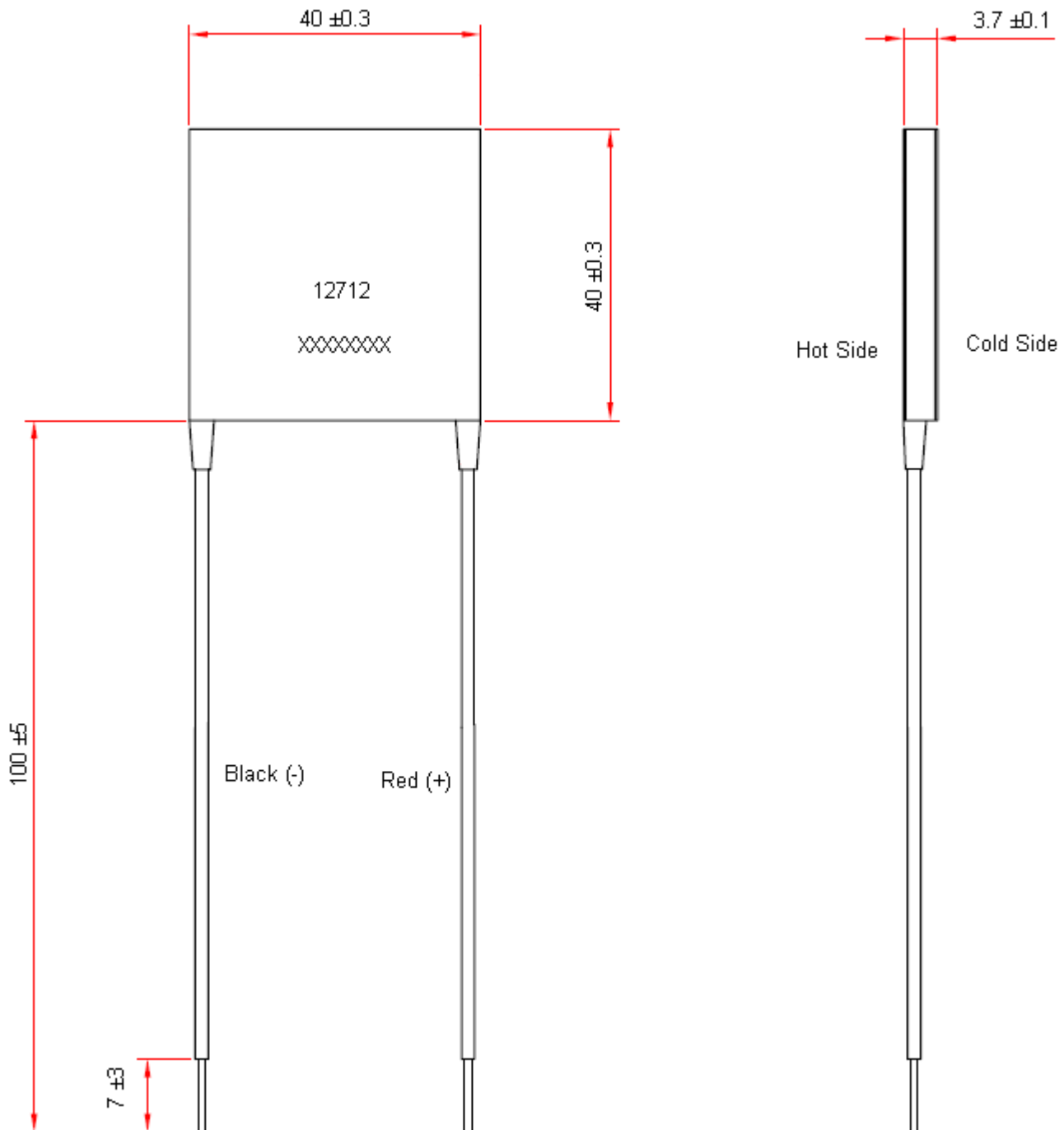
I max. (A)	U max. (V)	Qc max. W	dT max. °C	A	B	H	Part Number
6	15.7	55.6	70	40	40	3.95	MCPE1-12707AC-S

Dimensions : Millimetres

Thermoelectric Module



Outline Drawing



Dimensions : Millimetres

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