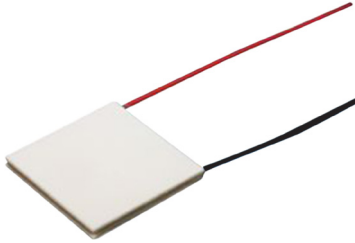


Thermoelectric Module



Scope:

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

Specifications:

Parameters		Remarks
Internal resistance	$1.4\Omega \pm 10\%$	Note-1
I max.	13A	Note-2
V max.	24.1V	Note-3
-	Th = 27°C Th = 50°C	-
Q max.	200W 224W	Note-4
ΔT max.	68°C 75°C	Note-5
Solder melting point	138°C	Note-6
Maximum compress	98.07N / cm ² (10kgf / cm ²)	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 = 0W
(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 $+90^\circ\text{C}$
- 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 0.02mm
- For optimum reliability and performance it is recommended that the module be utilised $<0.7\text{I max.}$
Silicone sealed for moisture protection

Thermoelectric Module



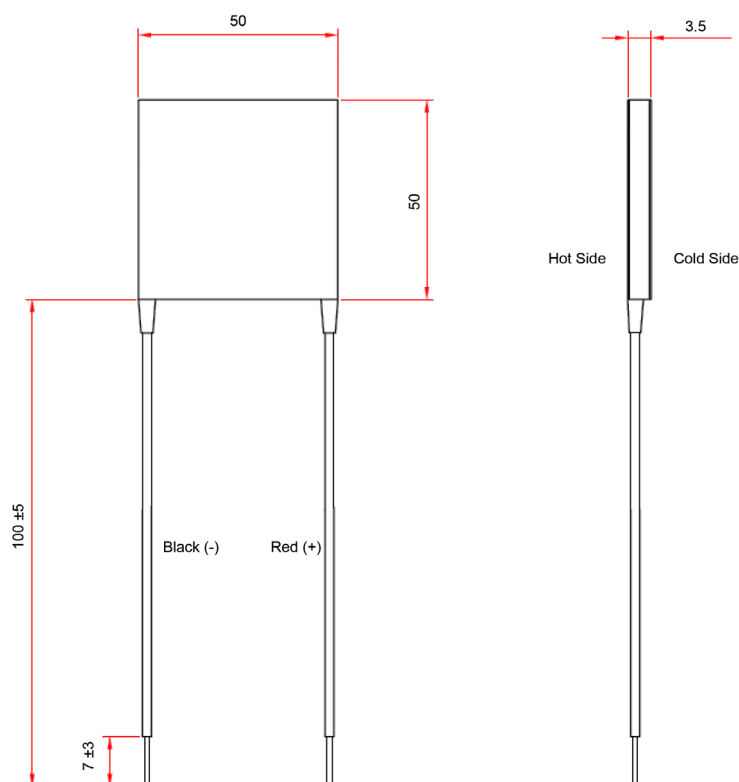
Specification Table

$T_{hot} = 27^{\circ}\text{C}$

I max. (A)	U max. (V)	Qc max. W	dT max. $^{\circ}\text{C}$	A	B	H	Part Number
13	24.1	200	68	50	50	3.5	MCTE1-19913L-S

Dimensions : Millimetres

Outline Drawing:



Dimensions : Millimetres

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