Thermoelectric Module





Scope:

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

Specifications:

Pa	Remarks		
Internal resistance	1.4Ω ±	Note-1	
I max.	13 <i>A</i>	Note-2	
V max.	24.1	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°	Note-6	
Maximum compress	98.07N / cm² (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 $\Delta T = 0$ °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°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 <0.7I max. Silicone sealed for moisture protection



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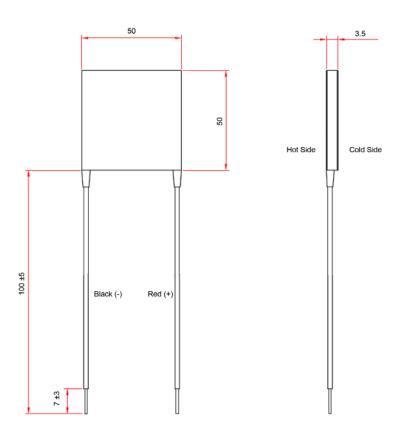
Specification Table

Thot = 27° C

I max. (A)	U max. (V)	Qc max. W	dT max. °C	Α	В	Н	Part Number
13	24.1	200	68	50	50	3.5	MCTE1-19913L-S

Dimensions: Millimetres

Outline Drawing:



Dimensions: Millimetres

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