

Scope:

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

Specifications:

Parameters		Remarks	
Internal resistance	1.4Ω ±10%	Note-1	
I max.	14.2A	Note-2	
V max.	26.3V	Note-3	
-	Th = 27°C	Th = 50°C	-
Q max.	237.6W	259.4W	Note-4
ΔT max.	74°C	83°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 ΔT = 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

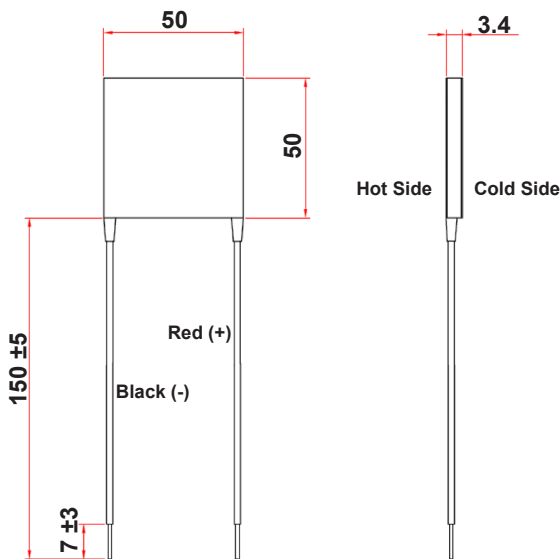
Specification Table

Thot = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C	A	B	H	Part Number
14.2	26.3	237.6	74	50	50	3.4	MCTE1-19913L-S

Dimensions : Millimetres

Outline Drawing:



Dimensions : Millimetres

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