TE1-19913L-S

Parameters			Remarks
Internal resistance	1.4 Ω ± 10%		Note-1
Imax.	13 A		Note-2
Vmax.	24.1 V		Note-3
	Th=27℃	Th=50℃	
Qmax.	200 W	224 W	Note-4
⊿Tmax.	68℃	75℃	Note-5
solder melting point	138℃		Note-6
Maximum. compress.	98.07N/cm^2 (10 kgf/cm^2)		Note-7

Note-1 Measured by AC 4-terminal method at 25℃.
Note-2 Maximum current at ⊿Tmax.
Note-3 Maximum voltage at ⊿Tmax.
Note-4 Maximum cooling capacity at Imax.,Vmax. and ⊿T=0℃.
Note-5 Maximum temperature difference at Imax.,Vmax. and Q=0W.
（Maximum parameters are measured in a vacuum 1.3P）
Note-6 The solder melting point of thermoelectric module
Note-7 Recommended maximum compression (not destruction limit)

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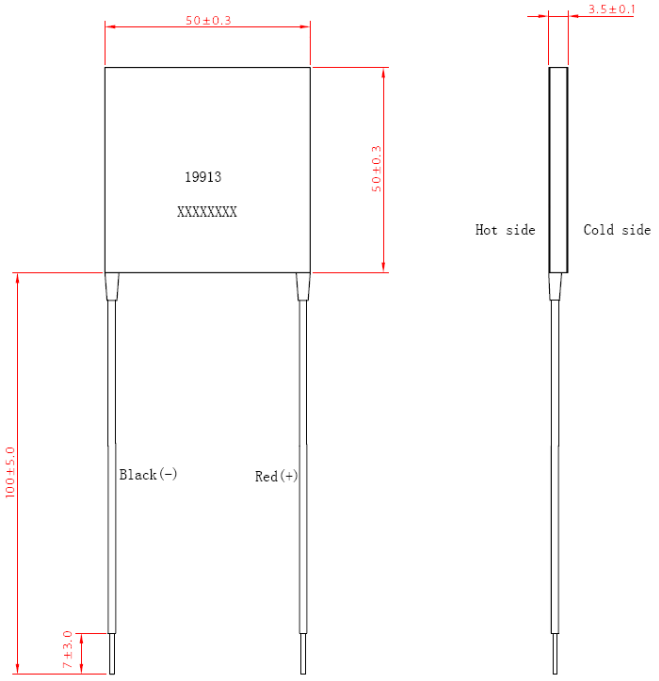

Recommendations:

- Operating range: -40 ºC to + 100 ºC
- 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 <0.71 max

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