SPECIFICATION

Product : Thermoelectric module

Part Number : TE1-19913L

1 . Scope

1—1 This specification is applied to Multicomp thermoelectric modules.

1—2 Revision of these specifications is carried out after consent.

2 . Specification

2 - 1 Parameters

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/cm² (10 kgf/cm²)		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)

2 - 2 Recommendations:

- Operating range: -40 ℃ to +90 ℃
- 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 I max

2 – 3 Outline Drawing