SPECIFICATION

Product: Thermoelectric module

Part Number: TE1-12712L

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	1.0 Ω ± 10%		Note-1
Imax.	12 A		Note-2
Vmax.	15.4 V		Note-3
	Th=27°C	Th=50°C	
Qmax.	110 W	123 W	Note-4
⊿Tmax.	68°C	75°C	Note-5
solder melting point	138°C		Note-6
Maximum. compress.	98.07N/cm ² (10 kgf/cm ²)		Note-7

Note-1 Measured by AC 4-terminal method at 25°C.

Note-2 Maximum current at ⊿Tmax.

Note-3 Maximum voltage at ⊿Tmax.

Note-4 Maximum cooling capacity at Imax., Vmax. and $\Delta T = 0^{\circ}C$.

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 $^{\circ}$ C to +90 $^{\circ}$ 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 I max

Outline Drawing

