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 °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 <0.7 I max 		
2 – 3 Outline Drawing		