1/2

SPECIFICATION

Product : Thermoelectric module

Part Number : PE1-7108AC

1. Scope

- 1—1 This specification is applied to Multicomp thermoelectric modules
- 1—2 Revision of these specifications is carried out after consent.

${\bf 2}$. Specification

2 - 1 Parameters

Parameters			Remarks
Internal resistance	$0.85 \ \Omega \pm 10\%$		Note-1
Imax.	8.5 A		Note-2
Vmax.	8.8 V		Note-3
	Th=27°C	Th=50°C	
Qmax.	43.1 W	48.0 W	Note-4
⊿Tmax.	70 °C	77 °C	Note-5
solder melting point	235 ℃		Note-6
Maximum. compress.	1MPa		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 $\Delta T = 0$ °C.

Note-5 Maximum temperature difference at Imax.,Vmax. and Q = 0W.

(Maximum parameters are measured in a vacuum $1.3\mathrm{P}$)

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 +100 °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