SPECIFICATION

Product : Thermoelectric module

Part Number : PF-127-14-11

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	1.59 Ω ± 10%		Note-1
Imax.	8.5 A		Note-2
Vmax.	15.7 V		Note-3
	Th=25℃		
Qmax.	79.0 W		Note-4
⊿Tmax.	70℃		Note-5
solder melting point	232 ℃		Note-6
Maximum. compress.	1MPa		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:

- maximum temperature for short time: 200 °C
- operation temperature up to 150°C for long lifetime;
- long lifetime in power cycling mode with polarity change
- recommended operation current not higher than 0.7 of Imax
- preferable application; thermal management / cycling at high temperatures

2 - 3 Performance Graph (298K and 323K respectively)