

SPECIFICATION

Product : Thermoelectric module

Part Number : PF-127-14-25

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	3.50 $\Omega \pm 10\%$	Note-1
I _{max} .	3.9 A	Note-2
V _{max} .	15.7 V	Note-3
	Th=25°C	
Q _{max} .	37.0 W	Note-4
ΔT_{max} .	73°C	Note-5
solder melting point	232 °C	Note-6
Maximum. compress.	1MPa	Note-7

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

Note-2 Maximum current at ΔT_{max} .

Note-3 Maximum voltage at ΔT_{max} .

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

Note-5 Maximum temperature difference at I_{max}.,V_{max}. 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)

