

Scope:

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

Specification:

1. Parameters

Parameters		Remarks
Internal resistance	1.59Ω ± 10%	Note-1
I _{max.}	8.5A	Note-2
V _{max.}	15.7V	Note-3
	Th=25°C	
Q _{max.}	79W	Note-4
ΔT _{max.}	70°C	Note-5
Solder melting point	232°C	Note-6
Max. 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 ΔT = 0°C.

Note-5 Maximum temperature difference at I_{max.}, V_{max.} and Q = 0W.
(Maximum parameters are measured in a vacuum 1.3P)

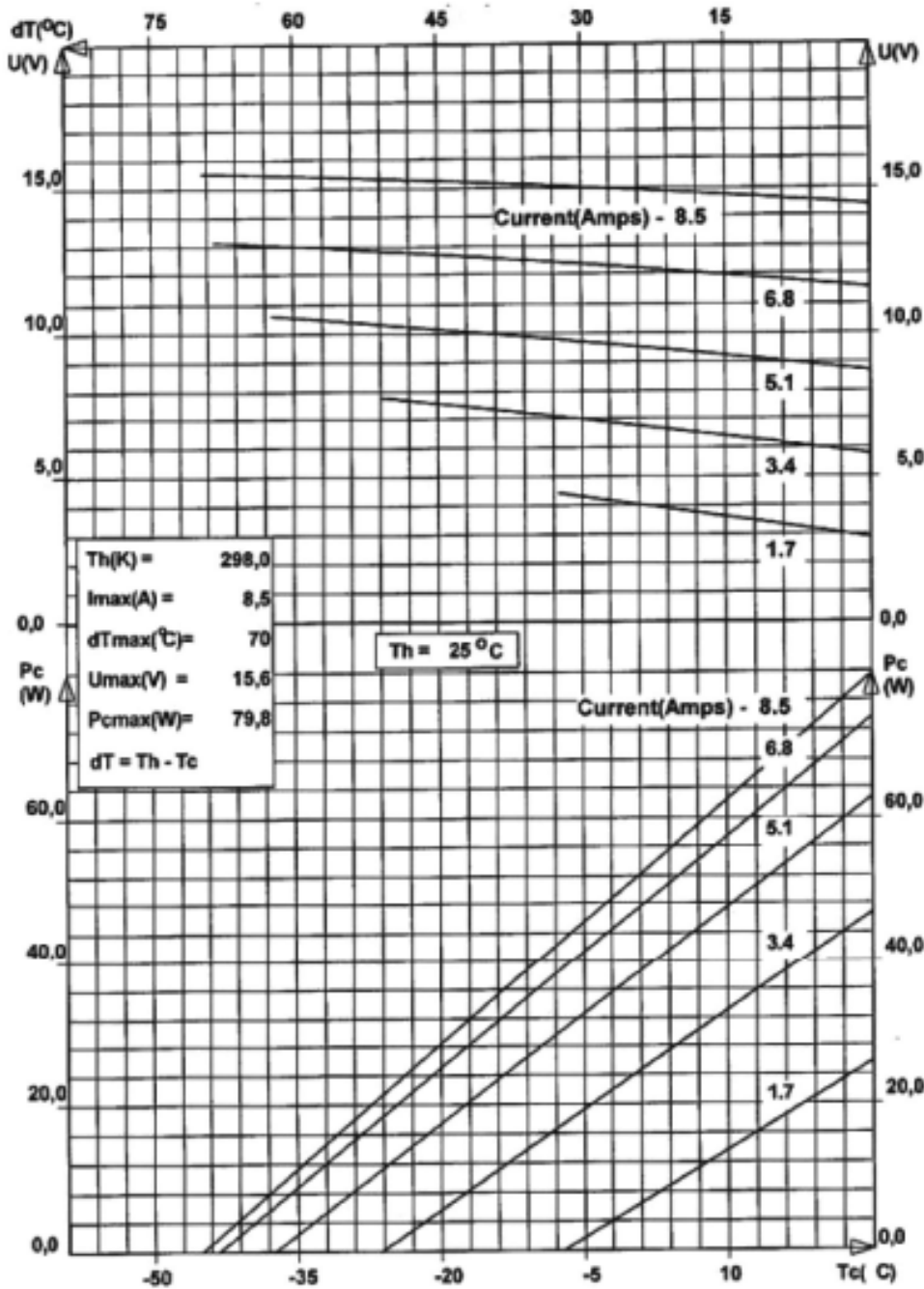
Note-6 The solder melting point of thermoelectric module.

Note-7 Recommended maximum compression (not destruction limit).

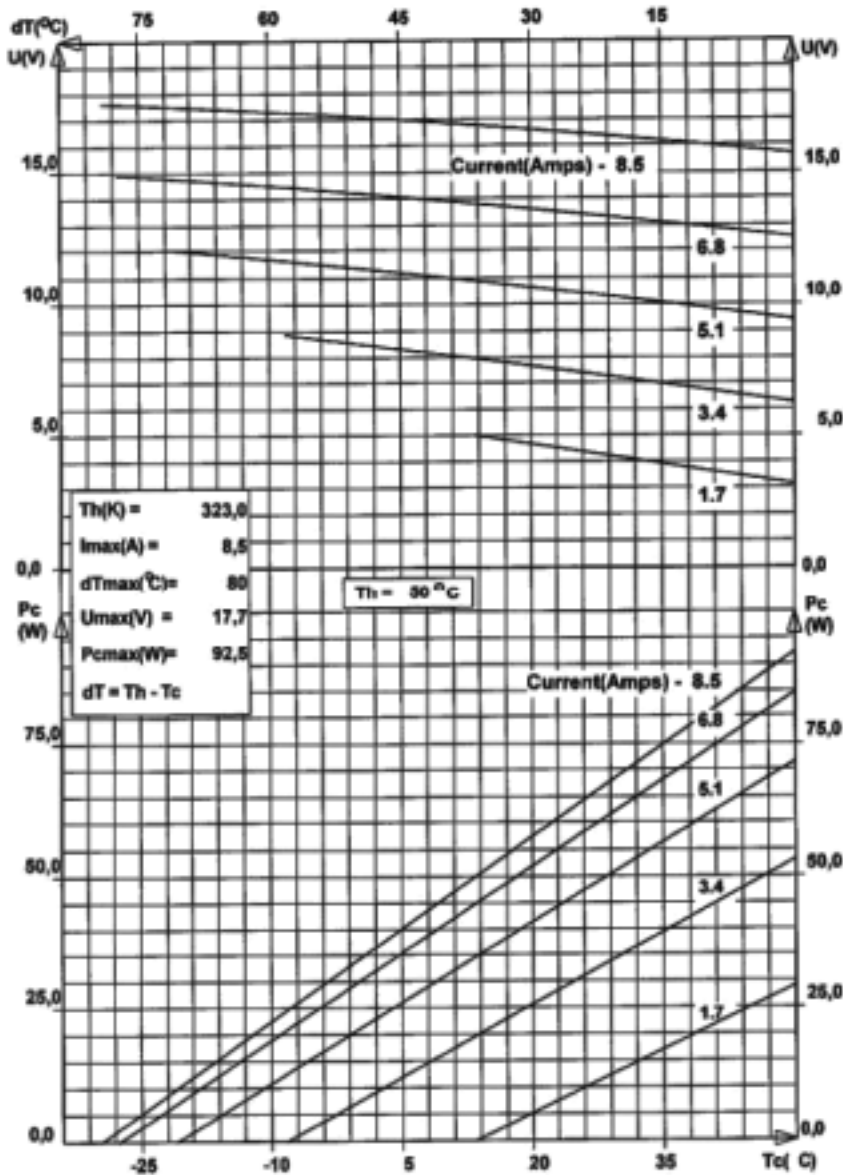
2. Recommendations

- 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 I_{max}
- Preferable application; thermal management / cycling at high temperatures

3. Performance Graph



Peltier Cooler



Part Number Table

Description	Part Number
Peltier Cooler, 79W	MCPF-127-14-11-E

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