

Peltier Cooler





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
lmax.	8.5A		Note-2
Vmax.	15.7V		Note-3
	Th=25°C		
Qmax.	79W		Note-4
ΔTmax.	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 ΔTmax.

Note-3 Maximum voltage at ΔTmax.

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 1.3P)

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 Imax
- Preferable application; thermal management / cycling at high temperatures



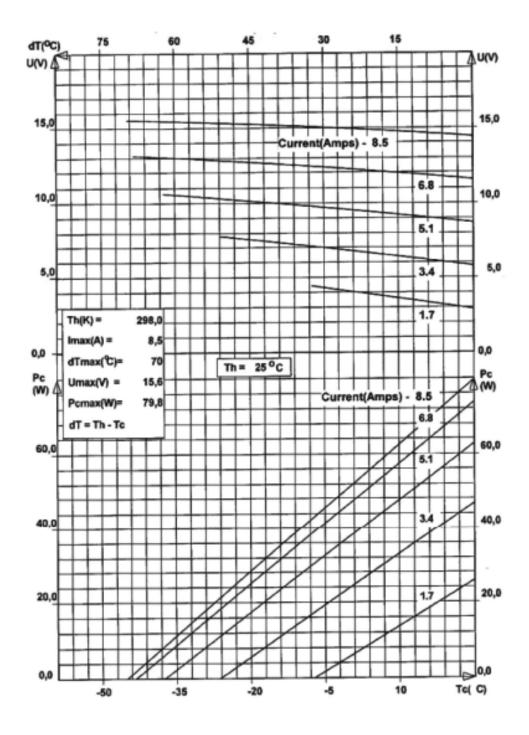




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3. Performance Graph



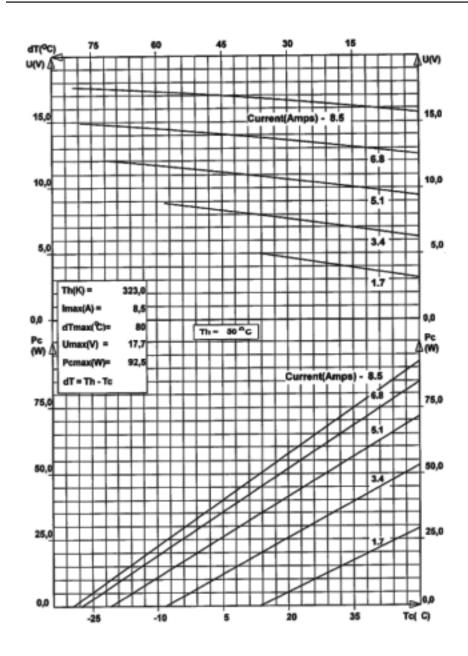






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Part Number Table

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



