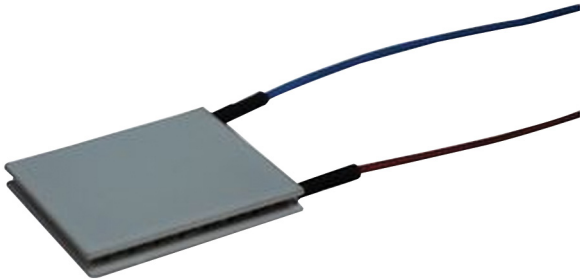


# Peltier Cooler - 44W



## Features:

Transducer Function: Thermoelectric modules

## Specifications:

Parameters		Remarks
Internal resistance	0.86Ω ± 10%	Note-1
I <sub>max</sub> .	8.5A	Note-2
V <sub>max</sub> .	8.8V	Note-3
	Th=25°C	
Q <sub>max</sub> .	44W	Note-4
ΔT <sub>max</sub> .	70°C	Note-5
Solder Melting Point	232°C	Note-6
Max. Compress	1MPa	Note-7
Operating Temperature	-150°C to +200°C	
External Depth	3.8mm	
External Length / Height	30mm	

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

**Note-2** Max. current at ΔT<sub>max</sub>

**Note-3** Max. voltage at ΔT<sub>max</sub>

**Note-4** Max. cooling capacity at I<sub>max</sub>., V<sub>max</sub>. and ΔT=0°C

**Note-5** Max. temperature difference at I<sub>max</sub>., V<sub>max</sub>. and Q=0W  
(Max. parameters are measured in a vacuum 1.3P)

**Note-6** The solder melting point of thermoelectric module

**Note-7** Recommended Max. compression (not destruction limit)

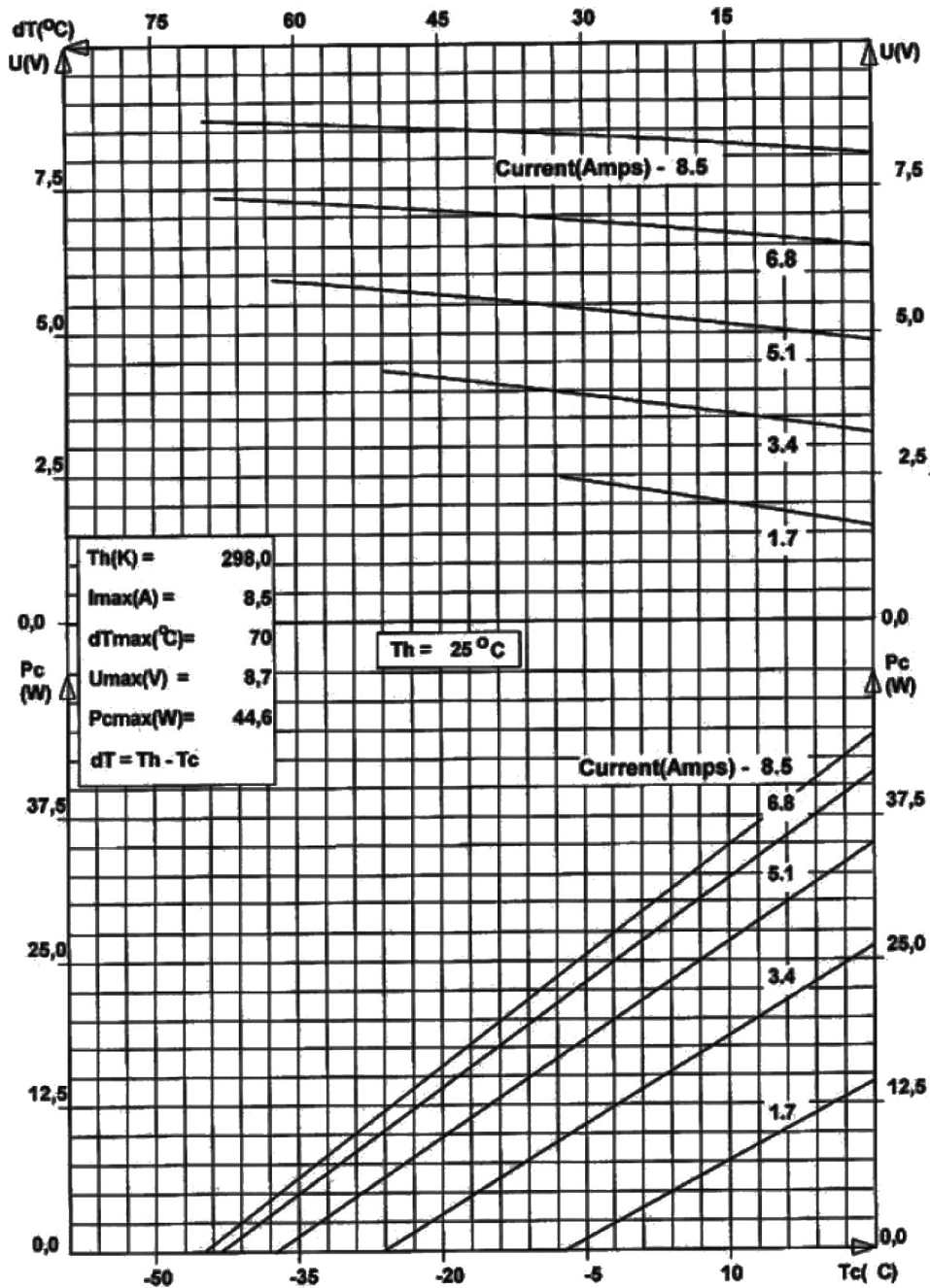
## Recommendations:

- ON/OFF cycling mode reliability at high temperature
- Recommended operation current not higher than 0.7 of I<sub>max</sub>
- Preferable application; thermal management

# Peltier Cooler - 44W



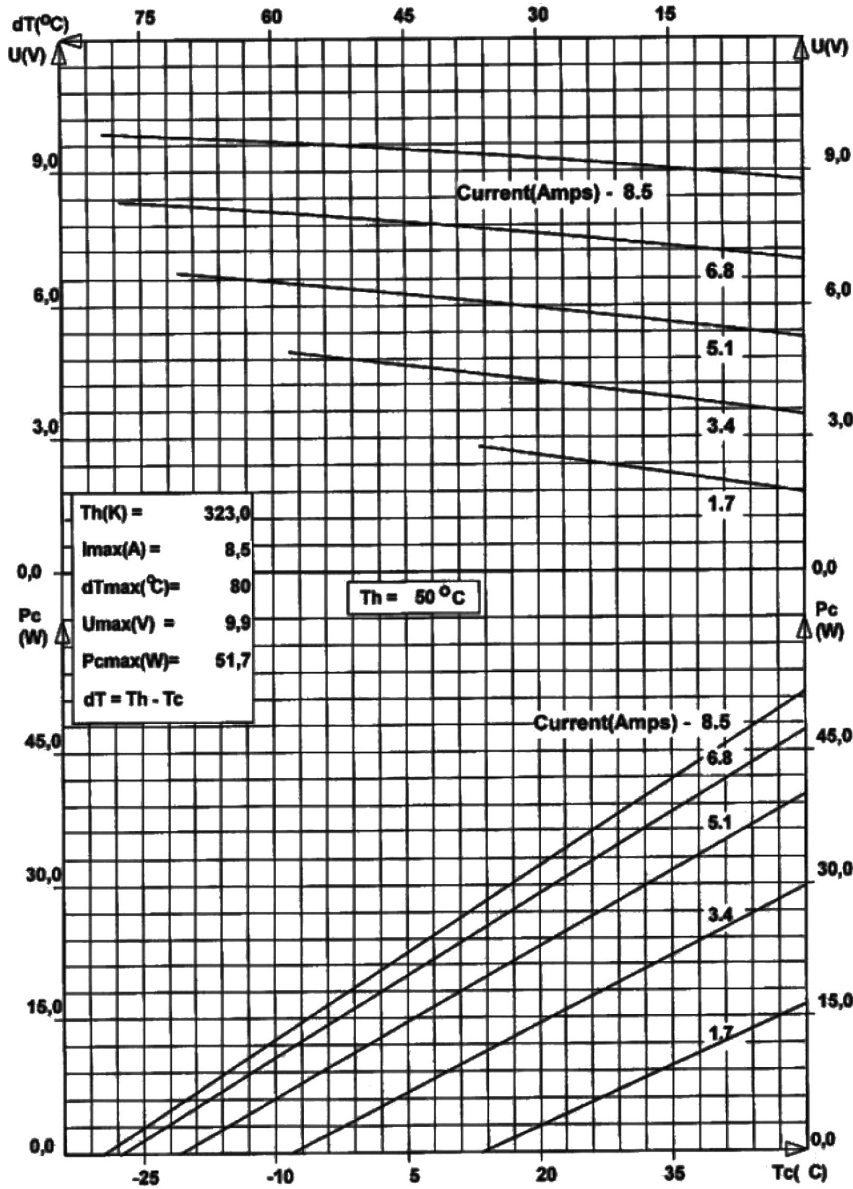
2-3 Performance Graph (298K)



# Peltier Cooler - 44W



## 2-3 Performance Graph (323K)



### Part Number Table

Description	Part Number
Peltier Cooler, 44W	MCPF-071-14-11

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