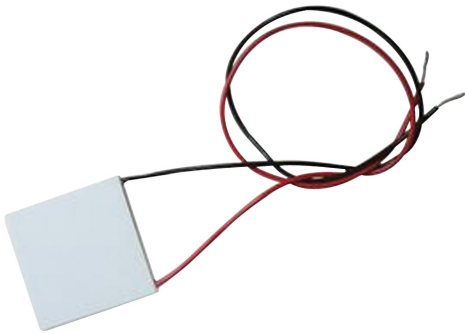


# Peltier Cooler - 55W



## Features:

Transducer Function: Thermoelectric modules

## Specifications:

Parameters		Remarks
Internal resistance	2.3Ω ± 10%	Note-1
I <sub>max.</sub>	6A	Note-2
V <sub>max.</sub>	15.7V	Note-3
-	Th=27°C	-
Q <sub>c</sub> max.	55W	Note-4
ΔT <sub>max.</sub>	69°C	Note-5
Solder Melting Point	1.8°C	Note-6
Max. Compress	1MPa	Note-7
Operating Temperature	-90°C to +100°C	
External Depth	3.1mm	
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)

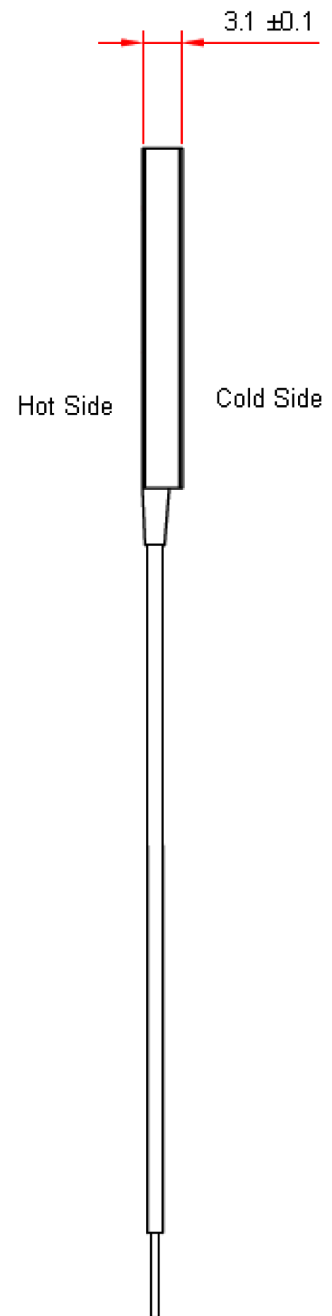
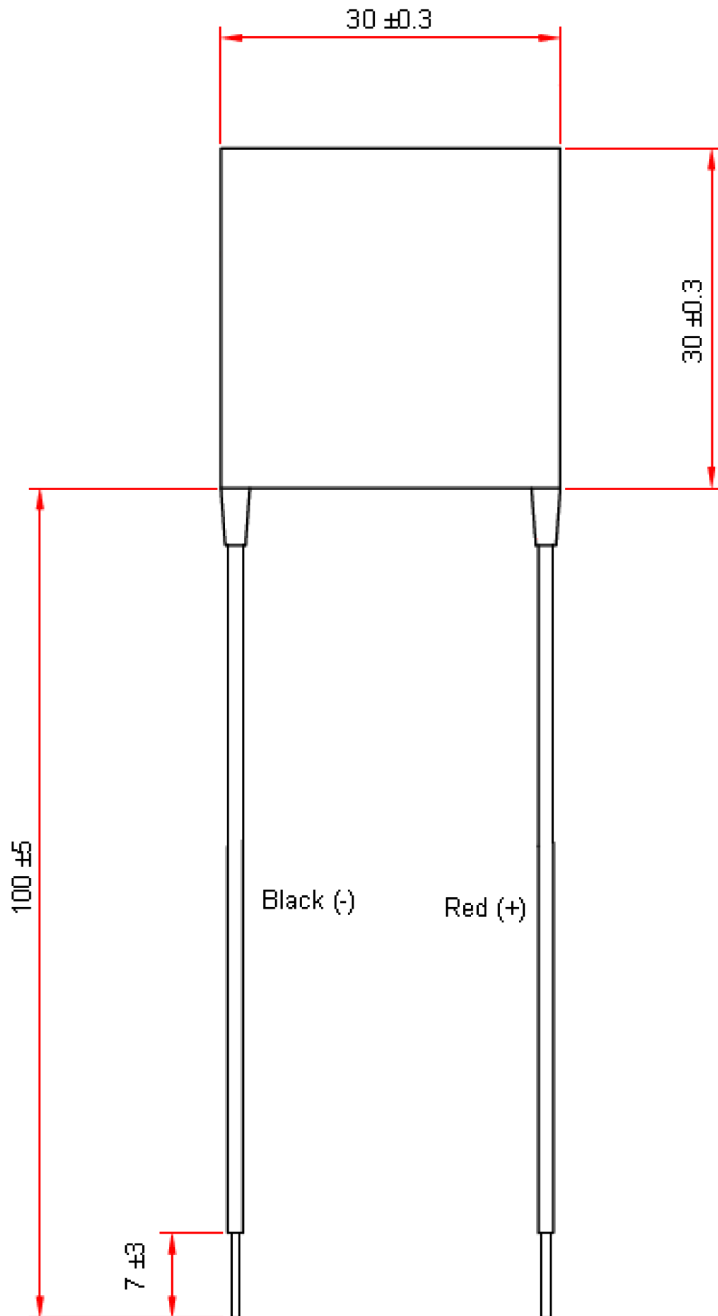
## Recommendations:

- High cooling capacity from a small surface and long lifetime in power cycling applications with change of current polarity
- Operation temperature up to 90°C for long lifetime; up to 110°C for short periods
- With operation current close to 0.5 I<sub>max.</sub> extremely high COP (coefficient of performance possible)
- Preferable application; high cooling capacity at high temperatures / cycling
- Epoxy sealed for moisture protection

# Peltier Cooler - 55W



## Outline Drawing



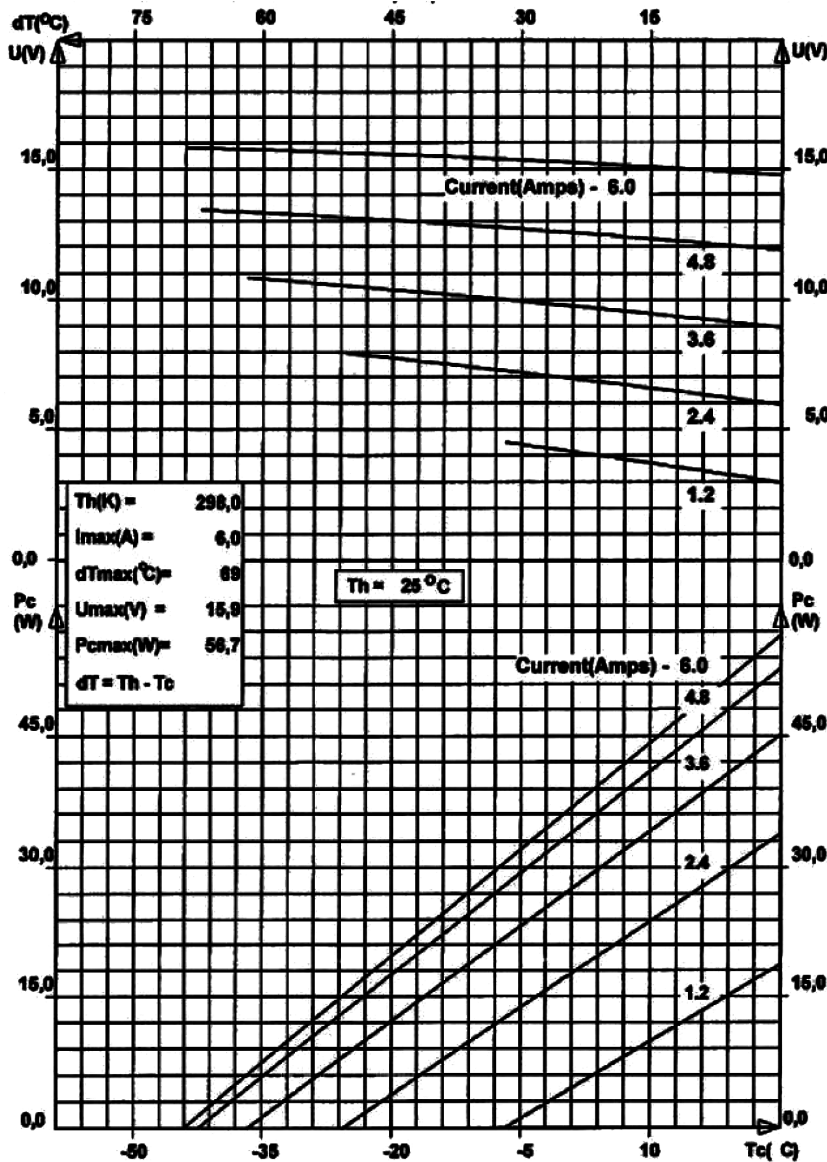
Dimensions : Millimetres



# Peltier Cooler - 55W



## 2-3 Performance Graph



### Part Number Table

Description	Part Number
Peltier Cooler, 55W	MCHPE-127-10-08-E

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