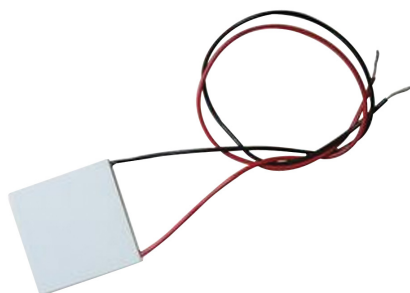


# Peltier Cooler - 150W



## Feature

Transducer Function: Thermoelectric modules

## Specifications

Parameters		Remarks
Internal resistance	$0.85\Omega \pm 10\%$	Note-1
I <sub>max.</sub>	15.4A	Note-2
V <sub>max.</sub>	15.7V	Note-3
-	Th=25°C	-
Q <sub>c</sub> max.	150W	Note-4
$\Delta T_{max.}$	68°C	Note-5
Solder Melting Point	138°C	Note-6
Max. Compress	1MPa	Note-7
Operating Temperature	-90°C to +110°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  $\Delta T_{max}$

**Note-3** Max. voltage at  $\Delta T_{max}$

**Note-4** Max. cooling capacity at I<sub>max.</sub>, V<sub>max.</sub> and  $\Delta T=0^\circ\text{C}$

**Note-5** Max. temperature difference at I<sub>max.</sub>, V<sub>max.</sub> and Q=0W  
(Maximum 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)

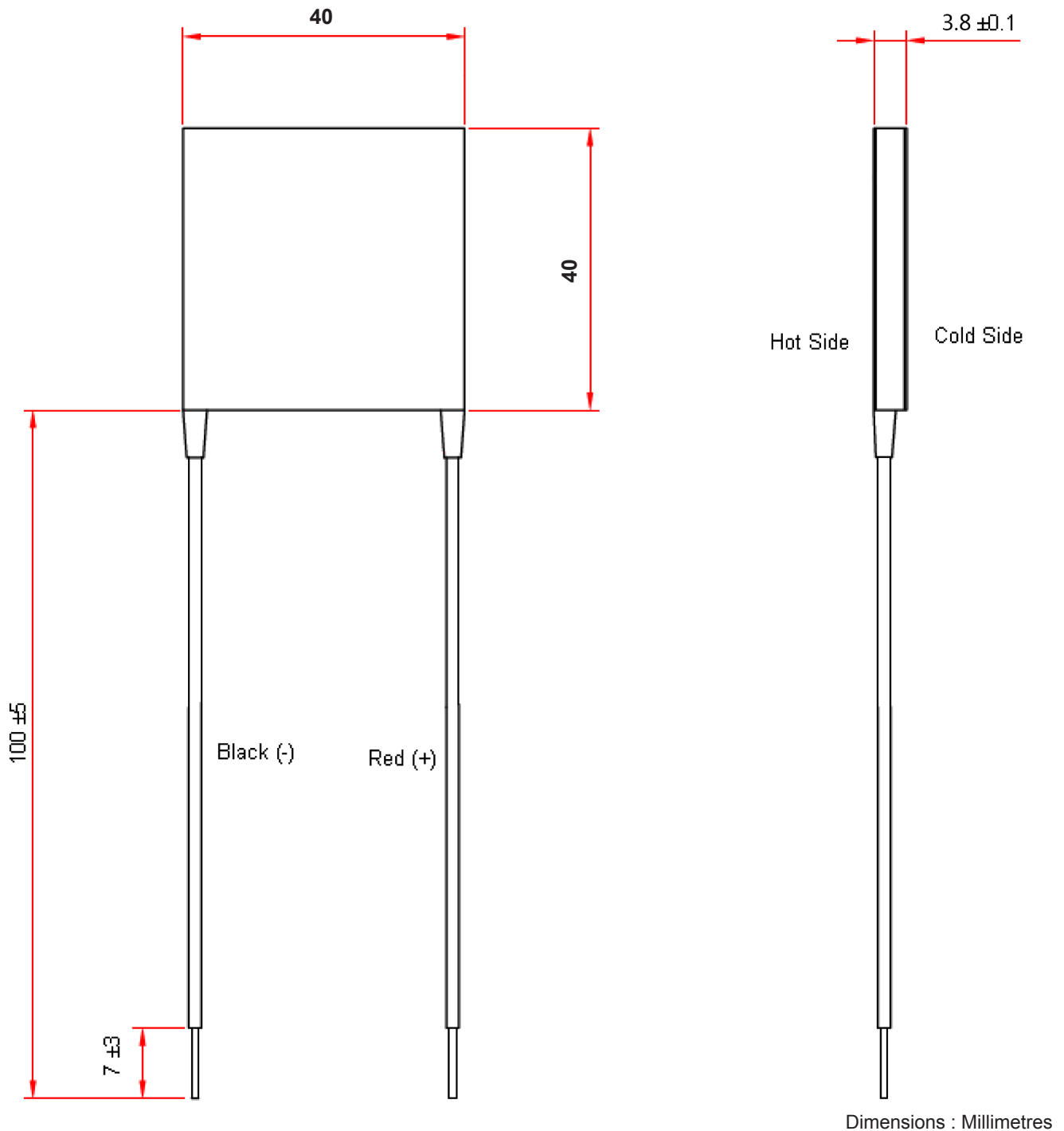
## Recommendations

- 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 - 150W

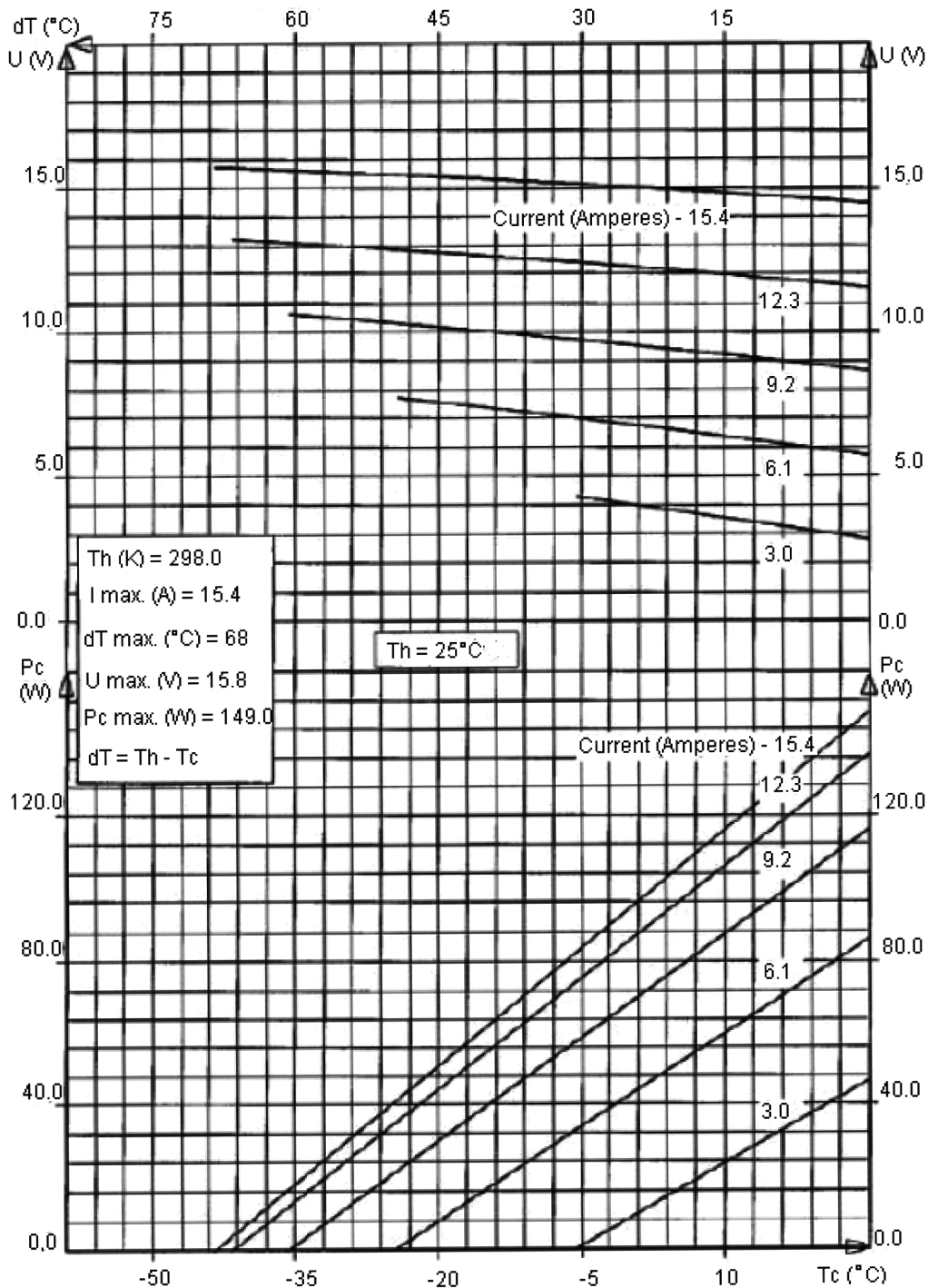


## Outline Drawing



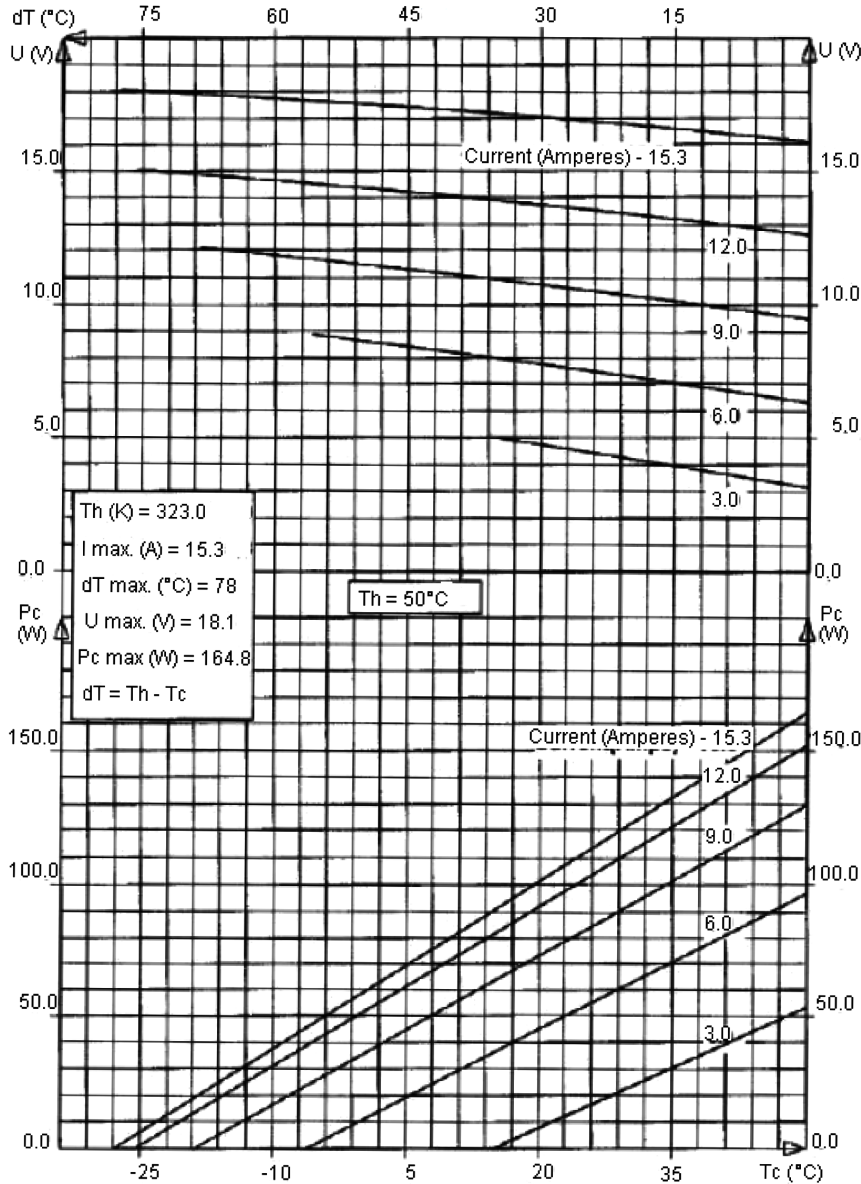
# Peltier Cooler - 150W

## 2-3 Performance Graph (298K)



# Peltier Cooler - 150W

## 2-4 Performance Graph (323K)



Part Number Table

Description	Part Number
Peltier Cooler, 150W	MCHPE-127-14-06-E