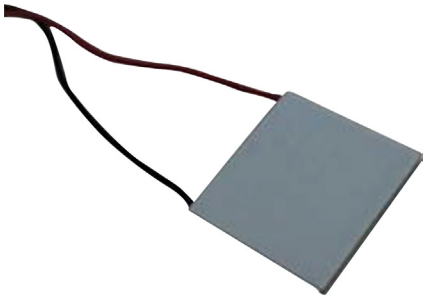
Peltier Cooler

multicomp



Scope

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

Specifications:

Parameters			Remarks
Internal Resistance	3.6Ω ±10%		Note-1
I Max.	3.9A		Note-2
V Max.	15.7V		Note-3
-	Th = 25°C	-	-
Q Max.	36W	-	Note-4
ΔT Max.	72°C	-	Note-5
Solder Melting Point	138°C		Note-6
Maximum Compress	1 MPa		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 = 0 W
(Maximum parameters are measured in a vacuum 1.3 P)
Note-6 : The solder melting point of thermoelectric module
Note-7 : Recommended maximum compression (not destruction limit)

Recommendations:

Maximum temperature for short time : 110°C
Operation temperature up to 90°C for long lifetime;
Good reliability in ON-OFF mode
Recommended operation current not higher than 0.7 of I maximum

Specification Table

Thot = 27°C

I Max. (A)	U Max. (V)	Qc Max. W	dT Max. °C
3.9	15.7	38.1	75

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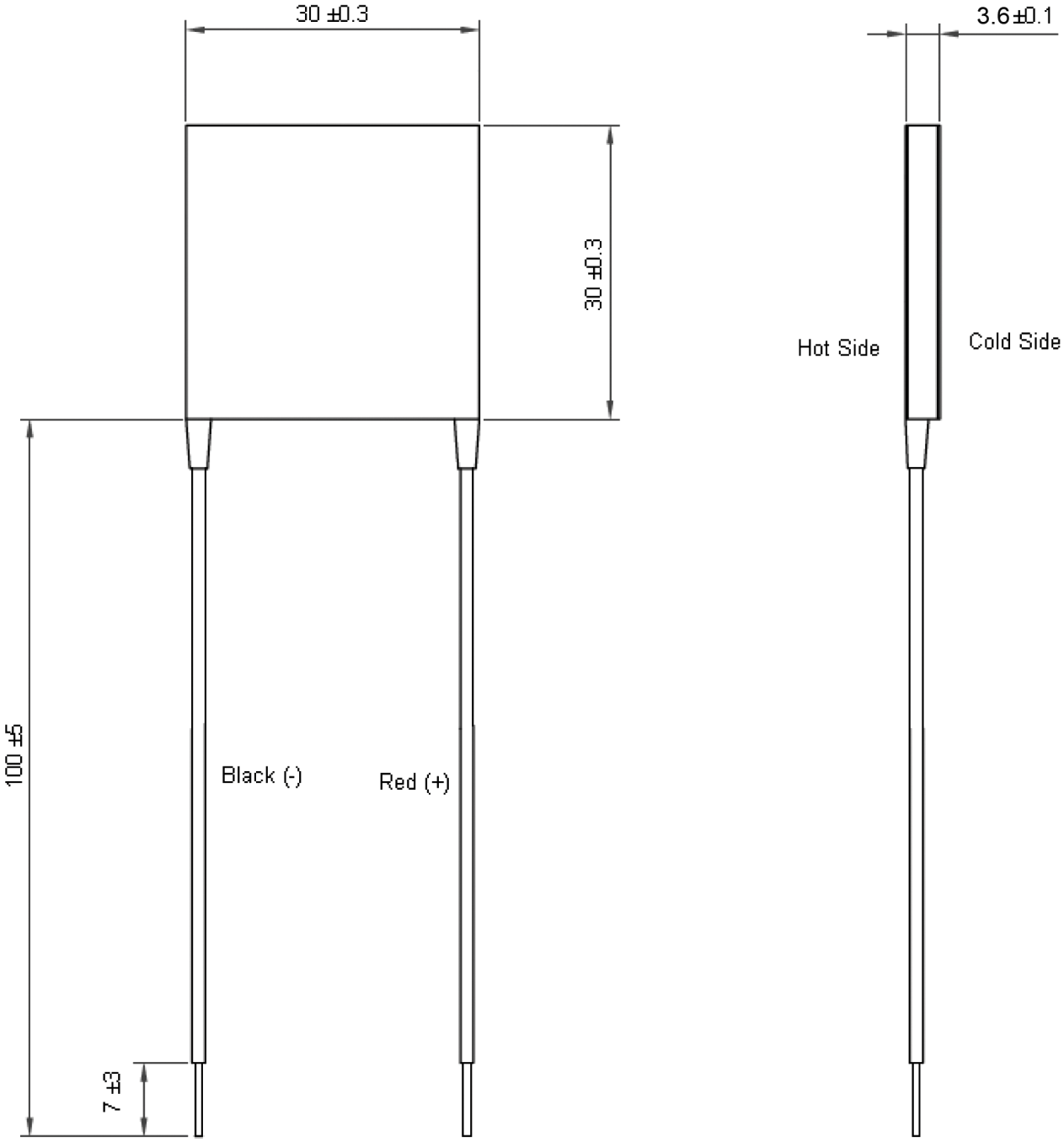
Outline Drawing



Dimensions : Millimetres

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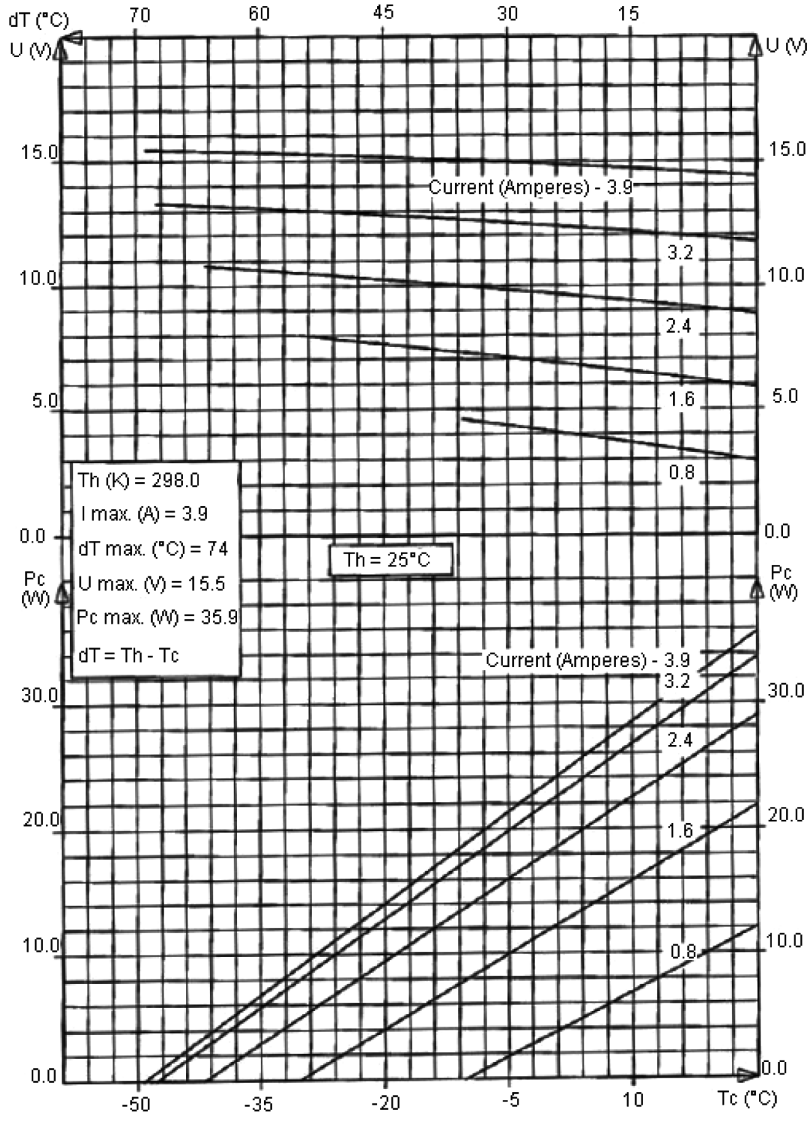
Performance Graph



Part Number Table

Description	Part Number
Peltier Cooler, 38.1W	MCPE-127-10-13

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03/06/15 V1.0

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