

## Specification:

Parameters		Remarks
Internal Resistance	1.9Ω ±10%	Note-1
I Max.	6A	Note-2
V Max.	15.7V	Note-3
-	Th = 27°C   Th = 50°C	-
Q Max.	53.1W   59.1W	Note-4
ΔT Max.	70°C   77°C	Note-5
Solder melting point	235°C	Note-6
Max. compress	1MPa	Note-7
Operating Temperature	-40°C to +100°C	
External Depth	3.15mm	
External Length / Height	30mm	

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

Note-2 Max. current at T Max.

Note-3 Max. voltage at T Max.

Note-4 Max. cooling capacity at I max., V max. and ΔT = 0°C

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

Note-6 The solder melting point of thermoelectric module

Note-7 Recommended max. compression (not destruction limit)

## Recommendations:

Dropping or exerting mechanical shock will cause breakage, take care in handling

Thinly spread thermally conductive grease should be placed between module and heat exchanger

Surface deviation from flatness should be kept under 0.02 mm

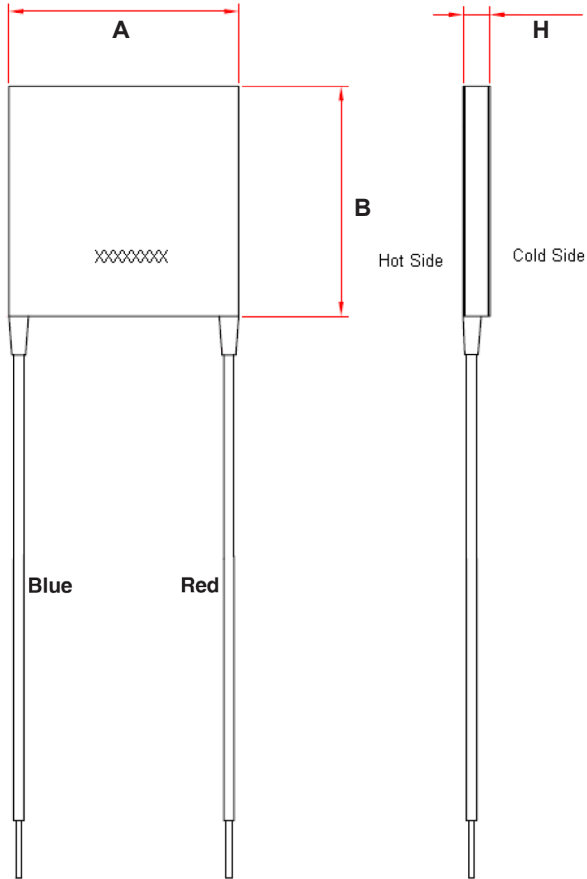
For optimum reliability and performance it is recommended that the module be utilised < 0.7 I max

## Specification Table:

T<sub>hot</sub> = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C
6	15.7	53.1	70

## Outline Drawing



**Dimensions Table**

A	B	H
30mm	30mm	3.15mm

## Part Number Table

Description	Part Number
Peltier Cooler, 53.1W	MCPE1-12706AC-S

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.