

Specification:

Parameters		Remarks
Internal Resistance	0.85Ω ±10%	Note-1
I Max.	8.5A	Note-2
V Max.	8.8V	Note-3
-	Th = 27°C Th = 50°C	-
Q Max.	43.1W 48W	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	3.45mm	
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

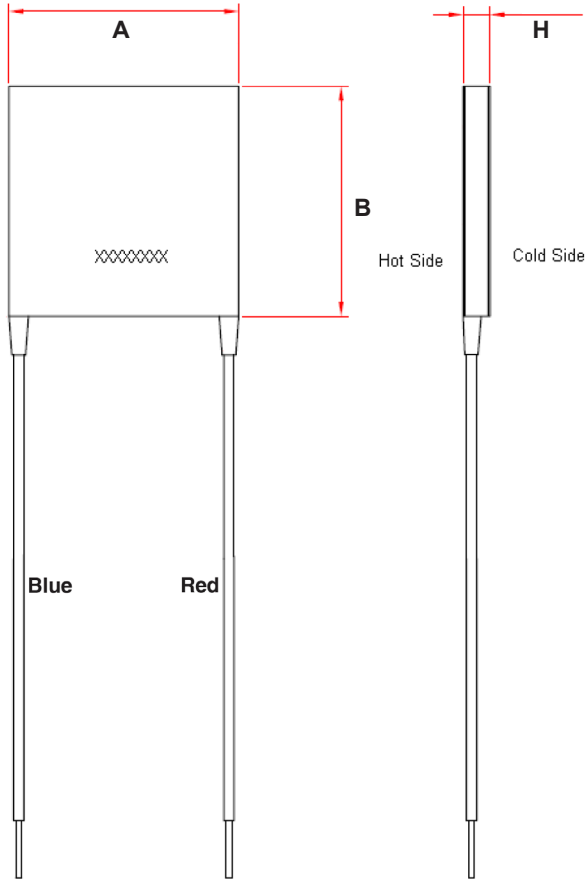
For optimum reliability and performance it is recommended that the module be utilised < 0.7 I max

Specification Table:

T_{hot} = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C
8.5	8.8	43.1	70

Outline Drawing



Dimensions Table

A	B	H
30mm	30mm	3.45mm

Part Number Table

Description	Part Number
Peltier Cooler, 43.1W	MCPE1-07108AC-S

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