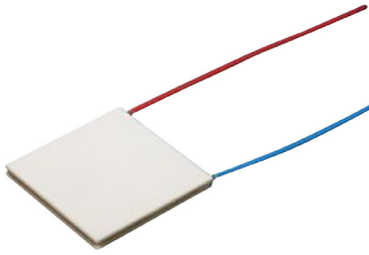


Peltier Cooler - 43.1W



Features:

Transducer Function: Thermoelectric modules

Specifications:

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 ΔT_{max}

Note-3 Max. voltage at ΔT_{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=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:

- 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 0.02mm
- For optimum reliability and performance it is recommended that the module be utilised < 0.7 I_{max} 2 – 3 Outline Drawing

Part Number Table

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

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