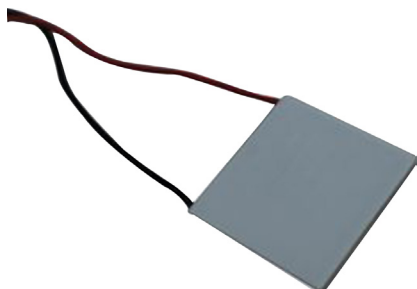


Peltier Cooler



Scope:

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

Specification:

1. Parameters

Parameters			Remarks
Internal resistance	$2.35\Omega \pm 10\%$		Note-1
I _{max.}	8.5A		Note-2
V _{max.}	24.1V		Note-3
	Th=25°C	Th =50°C	
Q _{max.}	118W	132W	Note-4
$\Delta T_{max.}$	68°C	75°C	Note-5
Solder melting point	138°C		Note-6
Max. Compress.	98.07N/cm ² (10 kgf/cm ²)		Note-7

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

Note-2 Maximum current at $\Delta T_{max.}$

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

Note-4 Maximum cooling capacity at I_{max.}, V_{max.} and $\Delta T = 0^\circ\text{C}$.

Note-5 Maximum temperature difference at I_{max.}, V_{max.} and Q = 0W.
(Maximum parameters are measured in a vacuum 1.3P)

Note-6 The solder melting point of thermoelectric module

Note-7 Recommended maximum compression (not destruction limit)

2. Recommendations

- Operating range: -40°C to +90°C
- 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}

Part Number Table

Description	Part Number
Peltier Cooler, 118W	MCTE1-19908L-S

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