# multicomp



### Scope:

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

### Specifications:

Pa	Remarks		
Internal resistance	1.4Ω ±′	Note-1	
I max.	13A	Note-2	
V max.	24.1	Note-3	
-	Th = 27°C	Th = 50°C	-
Q max.	200W	224W	Note-4
∆T max.	68°C	75°C	Note-5
Solder melting point	138°	Note-6	
Maximum compress	98.07N / cm² (*	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  $\Delta T = 0^{\circ}C$ 

Note-5 : Maximum temperature difference at I max. V max. and Q = 0W (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:**

- 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 <0.7I max. Silicone sealed for moisture protection

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## Thermoelectric Module



### **Specification Table**

Thot = 27°C

I max. (A)	U max. (V)	Qc max. W	dT max. °C	А	В	Н	Part Number
13	24.1	200	68	50	50	3.5	MCTE1-19913L-S

**Dimensions : Millimetres** 

### **Outline Drawing:**



#### **Dimensions : Millimetres**

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