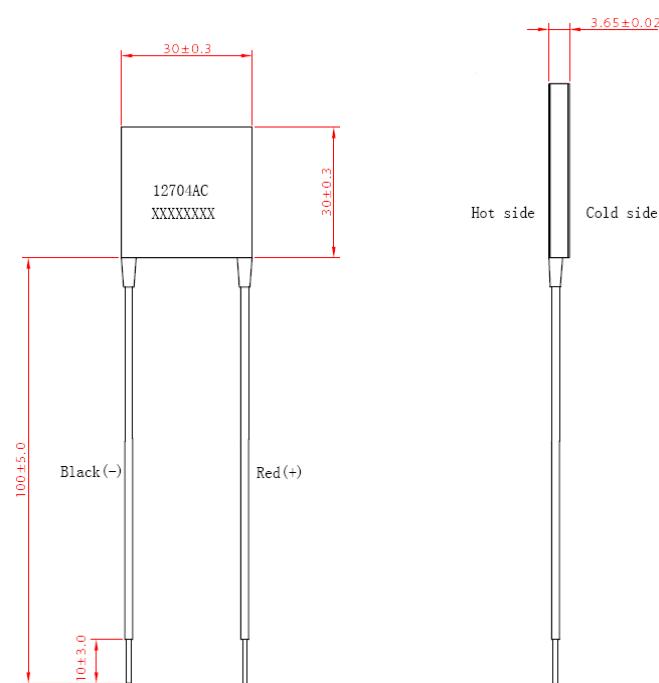




## PE1-12704AC-S

Parameters		Remarks
Internal resistance	$3.5 \Omega \pm 10\%$	Note-1
I <sub>max.</sub>	3.9 A	Note-2
V <sub>max.</sub>	15.7 V	Note-3
	Th=27°C	Th=50°C
Q <sub>max.</sub>	35.2 W	39 W
ΔT <sub>max.</sub>	70 °C	77 °C
solder melting point	235 °C	Note-6
Maximum. compress.	1MPa	Note-7

Note-1 Measured by AC 4-terminal method at 25°C.  
Note-2 Maximum current at ΔT<sub>max</sub>.  
Note-3 Maximum voltage at ΔT<sub>max</sub>.  
Note-4 Maximum cooling capacity at I<sub>max</sub>., V<sub>max</sub>. and ΔT=0°C.  
Note-5 Maximum temperature difference at I<sub>max</sub>., V<sub>max</sub>. 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)





**Recommendations:**

- Operating range: -40 °C to + 100 °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 <0.71 max



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