



TES1-1702LT125

- Thermo-Electric Cooling Element
- Q_{\max} : 2.36 W
- 6.2 x 6.2 x 2.3 mm
- Ceramic Plates
- RoHS Compliant



Description

TES1-1702LT125 is a 1-stage thermo-electric cooling (TEC) element, consisting of 17 couples, with a maximum cooling capacity of 2.36 W, and max. operating temperature of 80 °C. It features ceramic plates with silicone sealant and heat resistant wires. Variants with without sealant or with epoxy sealant are available on request.

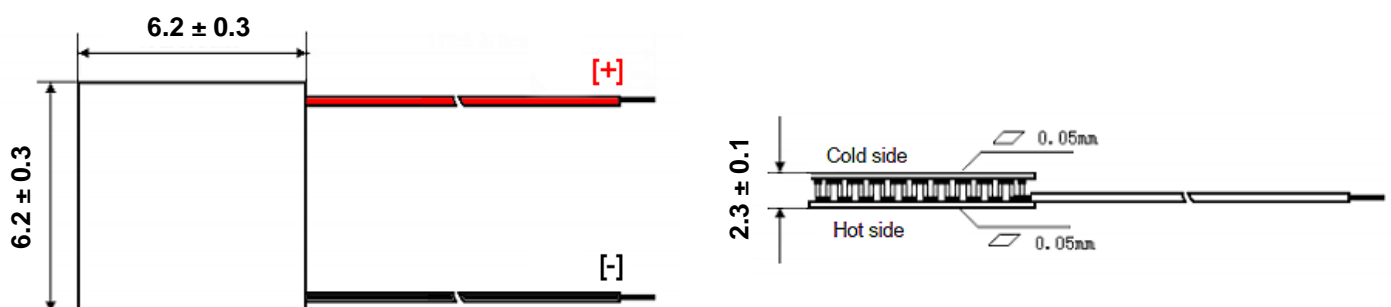
Specifications ($T_H = 27^\circ\text{C}$)

Parameter	Symbol	Value*	Unit
Maximum Current [ΔT_{\max}]	I_{\max}	2.0	A
Maximum Voltage [ΔT_{\max}]	U_{\max}	2.0	V
Internal Resistance [$T_H = 27^\circ\text{C}$]	R	0.85	Ω
Maximum Cooling Capacity [$I_{\max}, V_{\max}, \Delta T = 0^\circ\text{C}$]	Q_{\max}	2.36	W
Maximum Temperature Difference [$I_{\max}, V_{\max}, Q = 0 \text{ W}$]	ΔT_{\max}	63	$^\circ\text{C}$
Operating Temperature Range	$T_{\min} - T_{\max}$	- 50 ... + 80	$^\circ\text{C}$
Solder Melting Point	T_{sol}	138**	$^\circ\text{C}$
Maximum Recommended Plate Pressure	P_{PLT}	98.0	N/cm ²
Dimensions		6.2 x 6.2 x 2.3	mm
Length of Leads [20 AWG]		~ 150	mm

* Tolerance $\pm 10\%$

** T_{sol} of 238 $^\circ\text{C}$ optionally available

Outline Dimensions



All dimensions in mm



Performance Characteristics ($T_H = 27^\circ\text{C}$)

