



## TEC1-00705T125

- Thermo-Electric Cooling Element
- $Q_{\max}$ : 2.8 W
- 10 x 10 x 3.9 mm
- Ceramic Plates
- RoHS Compliant



### Description

TES1-00705T125 is a 1-stage thermo-electric cooling (TEC) element, consisting of 7 couples, with a maximum cooling capacity of 2.8 W, and max. operating temperature of 125 °C. It features ceramic plates with silicone sealant and heat resistant wires. Variants with without sealant or with epoxy sealant are available on request.

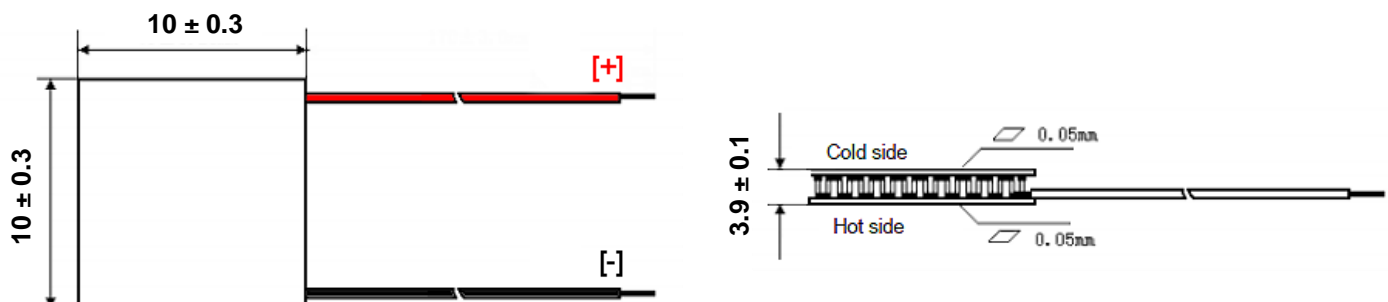
### Specifications ( $T_H = 27^\circ\text{C}$ )

Parameter	Symbol	Value*	Unit
Maximum Current [ $\Delta T_{\max}$ ]	$I_{\max}$	5.0	A
Maximum Voltage [ $\Delta T_{\max}$ ]	$U_{\max}$	0.85	V
Internal Resistance [ $T_H = 27^\circ\text{C}$ ]	R	0.13	$\Omega$
Maximum Cooling Capacity [ $I_{\max}, V_{\max}, \Delta T = 0^\circ\text{C}$ ]	$Q_{\max}$	2.8	W
Maximum Temperature Difference [ $I_{\max}, V_{\max}, Q = 0 \text{ W}$ ]	$\Delta T_{\max}$	67	$^\circ\text{C}$
Maximum Operating Temperature	$T_{\max}$	125	$^\circ\text{C}$
Solder Melting Point	$T_{\text{sol}}$	138**	$^\circ\text{C}$
Maximum Recommended Plate Pressure	$P_{\text{PLT}}$	98.0	N/cm <sup>2</sup>
Dimensions		10 x 10 x 3.9	mm
Length of Leads [20 AWG]		~ 150	mm

\* Tolerance  $\pm 10\%$

\*\*  $T_{\text{SOL}}$  of 238°C optionally available

### Outline Dimensions



All dimensions in mm