



## TES1-07103T125

- Thermo-Electric Cooling Element
- $Q_{\max}$ : 14.9 W
- 23 x 23 x 3.9 mm
- Ceramic Plates
- RoHS Compliant



### Description

TES1-07103T125 is a 1-stage thermo-electric cooling (TEC) element, consisting of 71 couples, with a maximum cooling capacity of 14.9 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 ( $T_H = 27^\circ\text{C}$ )

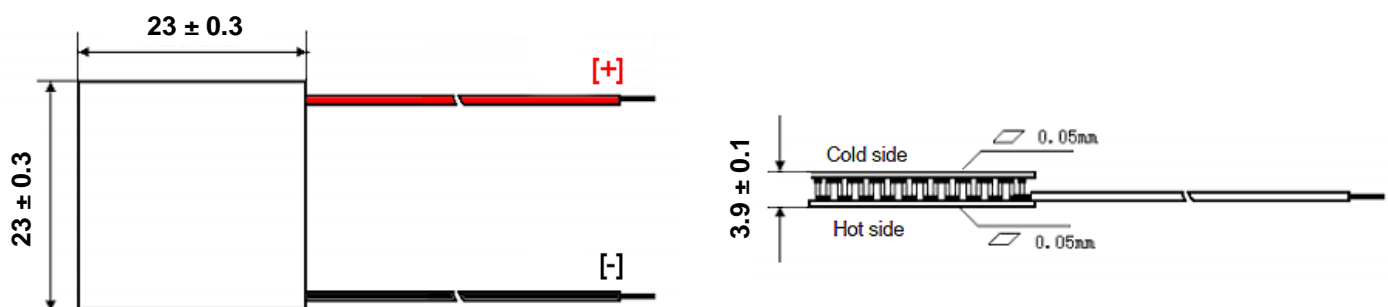
Parameter	Symbol	Value*	Unit
Maximum Current [ $\Delta T_{\max}$ ]	$I_{\max}$	3.0	A
Maximum Voltage [ $\Delta T_{\max}$ ]	$U_{\max}$	8.5	V
Internal Resistance [ $T_H = 27^\circ\text{C}$ ]	R	2.05	$\Omega$
Maximum Cooling Capacity [ $I_{\max}, V_{\max}, \Delta T = 0^\circ\text{C}$ ]	$Q_{\max}$	14.9	W
Maximum 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		23 x 23 x 3.9	mm
Length of Leads [20 AWG]		~ 150	mm

\* Tolerance  $\pm 10\%$

\*\*  $T_{\text{MAX}}$  of 150°C and 200°C optionally available

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

### Outline Dimensions



All dimensions in mm