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TEC2-25407T125

- **Thermo-Electric Cooling Element**
- **Q_{max}: 25.9 W**
- **40 x 40 x 7.0 mm**
- **Ceramic Plates**
- **RoHS Compliant**

Description

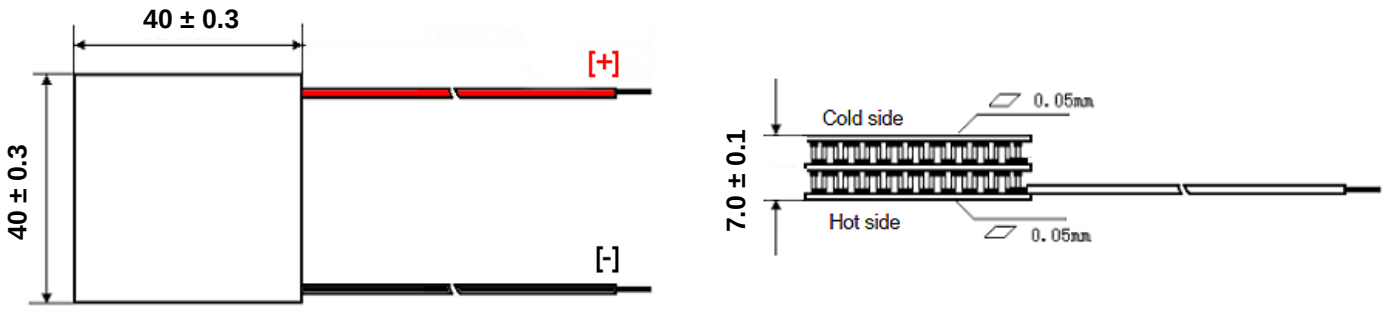
TEC2-25407T125 is a **2-stage** thermo-electric colling (**TEC**) element, consisting of **254 couples**, with a maximum cooling capacity of **25.9 W**, and max. operating temperature of **120 °C**. It features ceramic plates with silicone sealant and heat resistant wires. Variants with without sealant or with epoxy sealant are available on request.

Specifications (T_H = 27°C)

Parameter	Symbol	Value*	Unit
Maximum Current [ΔT_{max}]	I_{max}	7.0	A
Maximum Voltage [ΔT_{max}]	U_{max}	15.0	V
Internal Resistance [T_H = 27°C]	R	1.80	Ω
Maximum Cooling Capacity [I_{max}, V_{max}, ΔT = 0°C]	Q_{max}	25.9	W
Maximum Temperature Difference [I_{max}, V_{max}, Q = 0 W]	ΔT_{max}	80	**°C**
Operating Temperature Range	T_{min} - T_{max}	- 50 …+ 120**	°C
Solder Melting Point	T_{sol}	138***	°C
Maximum Recommended Plate Pressure	P_{PLT}	98.0	N/cm²
Dimensions		40 x 40 x 7.0	mm
Length of Leads [20 AWG]		~ 150	mm

* Tolerance ±10%
** T_{MAX} of 150°C and 200°C optionally available
*** T_{SOL} of 238°C optionally available

Outline Dimensions



All dimensions in mm