ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44 OFFICE@ROITHNER-LASER.COM

TES1-12703T125

- **Thermo-Electric Cooling Element**
- **Q_{max}: 26.7 W**
- **30 x 30 x 3.5 mm**
- **Ceramic Plates**
- **RoHS Compliant**

Description

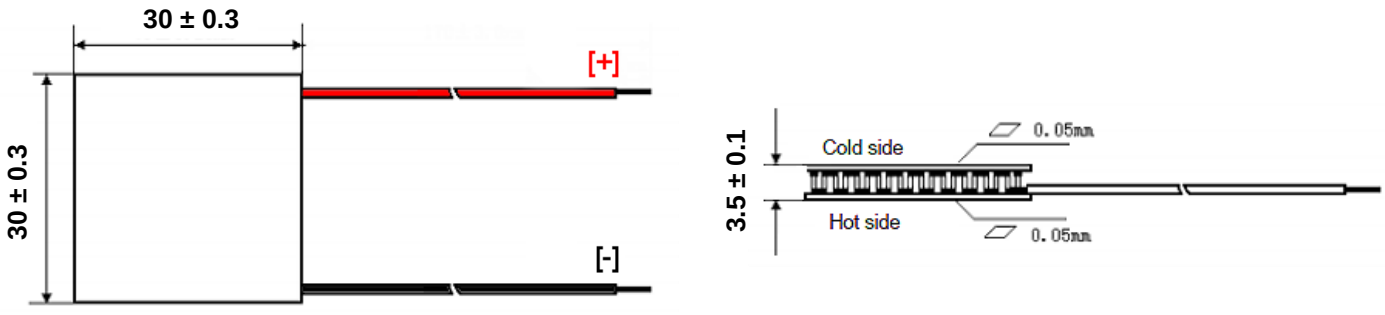
TES1-12703T125 is a **1-stage** thermo-electric colling (**TEC**) element, consisting of **127 couples**, with a maximum cooling capacity of **26.7 W**, and max. operating temperature of **125 °C**. It features ceramic plates with silicone sealant and heat resistant wires. Variants with without sealant or with epoxy sealant are available on request.

Specifications (T_H = 27°C)

Parameter	Symbol	Value*	Unit
Maximum Current [ΔT_{max}]	I_{max}	3.0	A
Maximum Voltage [ΔT_{max}]	U_{max}	15.4	V
Internal Resistance [T_H = 27°C]	R	3.52	Ω
Maximum Cooling Capacity [I_{max}, V_{max}, ΔT = 0°C]	Q_{max}	26.7	W
Maximum Temperature Difference [I_{max}, V_{max}, Q = 0 W]	ΔT_{max}	67	**°C**
Maximum Operating Temperature	T_{max}	125**	°C
Solder Melting Point	T_{sol}	138***	°C
Maximum Recommended Plate Pressure	P_{PLT}	98.0	N/cm²
Dimensions		30 x 30 x 3.5	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