

Standard and additional options

A great variety of thermoelectric applications determine a number of requirements for certain module parameters. Some of these parameters are vital for further application of thermoelectric element and therefore we would be thankful if you could share some of your final operating conditions with us before issuing a purchase order for the specific type of Peltier element.

Based on our knowledge and considerable experience in the field of thermoelectrics we have summarized all of the must-be-indicated options in the following table.

Specific requirement for:	Standard option	Additional option
1. Interior solders	Pb/Sn (+ 183° C m.p.t.)	high temperature version: lead free solder (+ 230° C m.p.t.)
2. Outer ceramic surface	Lapped	- Au plated - Tinned by solders in any combination: In/Sn (+ 117° C m.p.t.), Bi/Sn (+ 136° C m.p.t.), Pb/Sn (+ 183° C m.p.t.)
3. Module height tolerance	± 0.2 mm (standard)	± 0.02 mm (close)
4. <u>Moisture protection</u>	none	- Coating - Silicone sealing - Epoxy sealing
5. Lead wires and insulation	- Standard TE modules: 18 - 24 AWG in PVC insulation; - Micromodules: 30 AWG uninsulated solid wire	18 - 24 AWG in Teflon or Silicon insulation
6. Wire length	- within 2.5 - 3.9 Amps range is 120 mm; - within 3.9 - 15 Amps range is 150 mm	Arbitrary (minimum length is 20 mm)
7. Wire terminals and housing	none	- Molex Single-sided terminal (series 2478, number 08-52-0071) - Molex Crimp Housing (series 5058, 2-position 10-01-5022) see illustration

Default options:

- All thermo coolers are assembled with anti-diffusion barriers onto the pellets enabling a cooler to operate in + 150° C conditions for standard version and + 200° C conditions for high temperature version.
- Flatness and parallel variance is not more than 0, 02 mm.
- All modules are assembled with using no halide substances.

All additional options are charged separately.