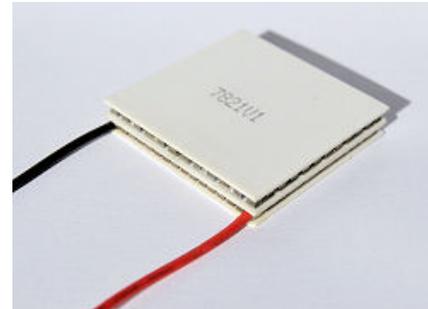
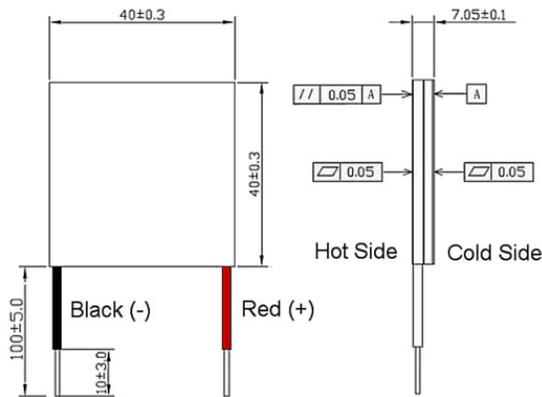


TM2 40-40-8.5

2-STAGE THERMOELECTRIC COOLING MODULE

Specifications (Hot-Side Temperature 27 °C)

I_{max} maximum current at ΔT_{max}	V_{max} maximum voltage at ΔT_{max}	Q_{cmax} maximum cooling capacity at I _{max} , V _{max} and $\Delta T = 0\text{ }^{\circ}\text{C}$	ΔT_{max} maximum temperature difference at I _{max} , V _{max} and Q _c = 0W	Internal Resistance
8.5 Amps	16.1 Volts	56.1 Watts	85 °C	5.0 $\Omega \pm 10\%$



TM2 40-40-8.5 is a two-stage TE Cooler that has a large surface area for cooling, a fabulous 85 °C ΔT_{max} and over 50 watts of cooling capacity.

When a conventional single-stage module simply can't get the job done this may be the solution. The ΔT_{max} actually increases to 95 °C with a T_h of 50 °C.

With a Q_{max} of 51.6 watts the module capable of cooling a significant load. At full power, with a maximum load, this module will have a significant load to heat-sink. It's likely a forced convection or liquid heat-sink will be required to achieve the desired performance.

To cover a large area, this module is available in pre-wired and sealed strings, of your design or ours (2-12 modules long).

- Dimensions: 1st Stage (base) 40x40, 2nd stage (top) 40x40, (7.05 thick) (mm)
- Operating temperature range: -50 °C ~ +105 °C (Solder melting point: +138 °C)
- Thickness tolerance: ± 0.025mm
- Flatness and parallel variance: ± 0.05mm
- Standard lead wires: 20 AWG, Tin (Sn) plated at module interface, with a maximum temperature of +105 °C (Other wiring options available)
- Maximum recommended compression: 1Mpa
- Ceramics: Alumina (AL₂O₃)
- Can be built with metalized (and tinned) surfaces.
- Lot number (only) printed on the cold-side ceramic.
- RoHS Compliant

Are you a manufacturer and need a slightly different module? Our TE modules can be customized in a variety of ways and we can likely provide precisely what you require. Let us know what you need and we'll be happy to let you know what we can do for you.

TM2 40-40-8.5 Web Page

Contact sales@electracool.com for a quotation

Advanced Thermoelectric, PO Box 1003, White River, VT 05001

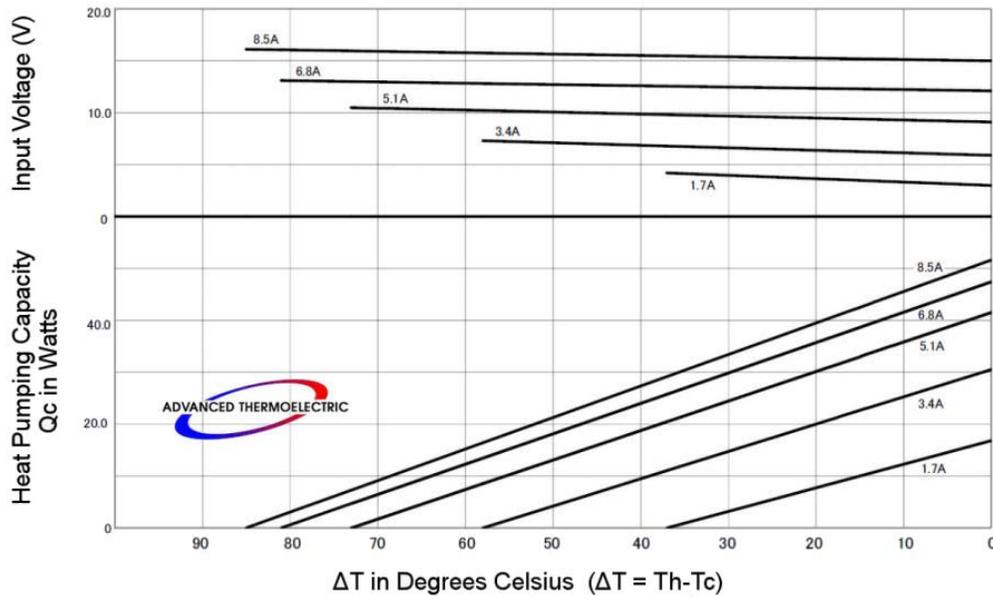
Advanced Thermoelectric toll-free 1-866-665-5434 (603) 888-2467 sales@electracool.com



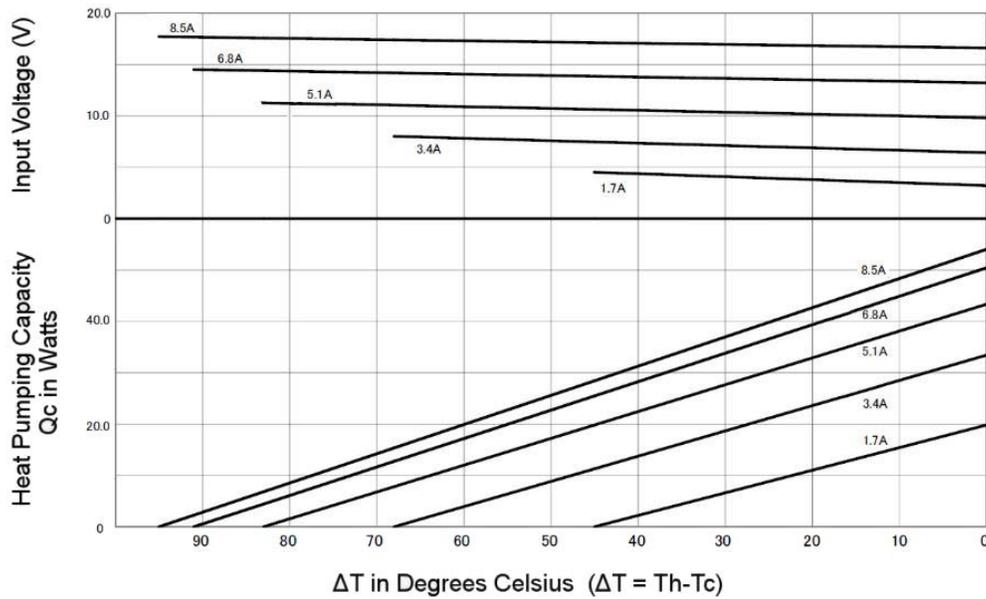
TM2 40-40-8.5

2-STAGE THERMOELECTRIC COOLING MODULE

2-Stage Thermoelectric Module TM2 40-40-8.5 Performance Curves Th 27 °C



2-Stage Thermoelectric Module TM2 40-40-8.5 Performance Curves Th 50 °C



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