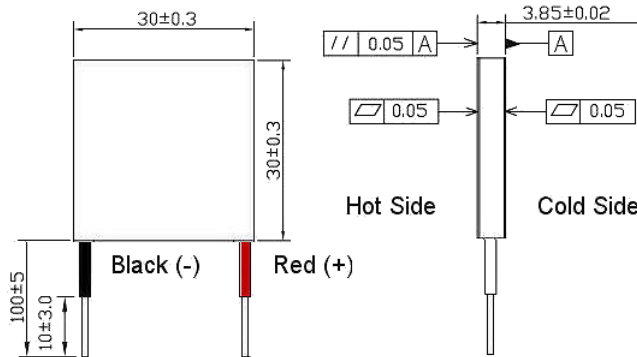


## Specifications (Hot-Side Temperature 27 °C)

<b>I<sub>max</sub></b> maximum current at ΔT <sub>max</sub>	<b>V<sub>max</sub></b> maximum voltage at ΔT <sub>max</sub>	<b>Q<sub>Cmax</sub></b> maximum cooling capacity at I <sub>max</sub> , V <sub>max</sub> and ΔT = 0 °C	<b>ΔT<sub>max</sub></b> maximum temperature difference at I <sub>max</sub> , V <sub>max</sub> and Q <sub>C</sub> = 0W	<b>Internal Resistance</b>
<b>3.0 Amps</b>	<b>15.7 Volts</b>	<b>29.8 Watts</b>	<b>70 °C</b>	<b>4.0 Ω ± 10%</b>



Dimensions: 30 x 30 x 3.85mm

Operating temperature range: -50 °C ~ +200 °C  
(Solder melting point: +235 °C)

Thickness tolerance: ± 0.025mm  
Flatness and parallel variance: ± 0.05mm  
(Lapping to ± 0.01mm for multi-module apps available.)

Standard lead wires: 22 AWG, Tin (Sn) plated at module interface, with a maximum temperature of +105 °C  
(Other wiring options available)

Maximum recommended compression: 1Mpa

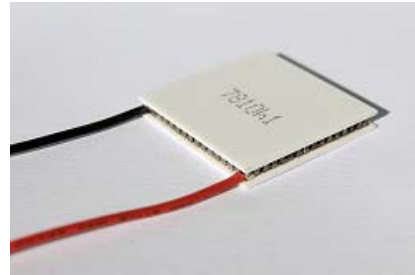
Ceramics: Alumina (Al<sub>2</sub>O<sub>3</sub>)  
Metalized (and tinned) surfaces available

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.*

**TM 127-1.0-3.0 Web Page Link**



With almost 30 watts of cooling capacity, in a module a little over an inch square, TM 127-1.0-3.0 is powerful enough to cool a wide range of components. In the 30 mm footprint, it's got the perfect balance between good cooling capacity with the ability to use a variety of economical (extruded) heat-sinks that can keep the hot-side temperature from becoming unreasonably high.

May be used for cooling, heating and temperature stabilization in a wide range of applications including consumer goods, medical, analytical, laboratory & scientific instruments, electro-optics, telecommunications, industrial and military.

Available in pre-wired and sealed strings, of your design or ours (2-12 modules long). Can be built with metalized (and tinned) surfaces. A version for thermal cycling is available.

Standard Option Designations (Suffix):

Epoxy edge sealing = "E"

RTV Edge sealing = "RTV"

Lapping to ± 0.01mm = "L"

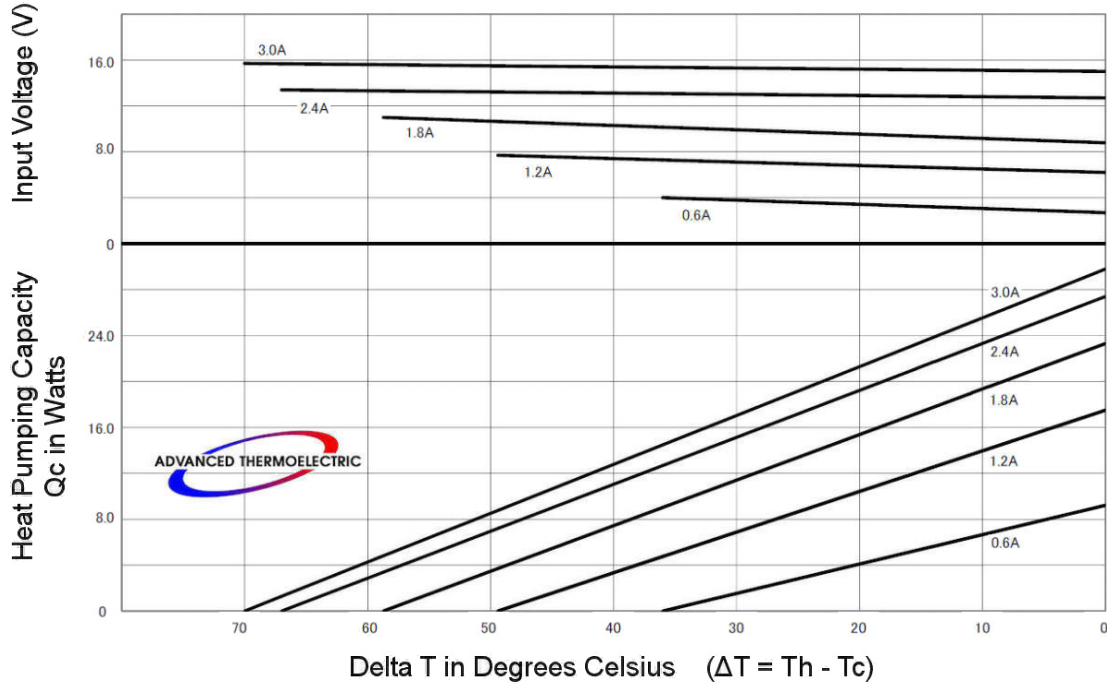
(for example TM-127-1.0-3.0 "EL")

Contact [sales@electracool.com](mailto:sales@electracool.com) for a quotation

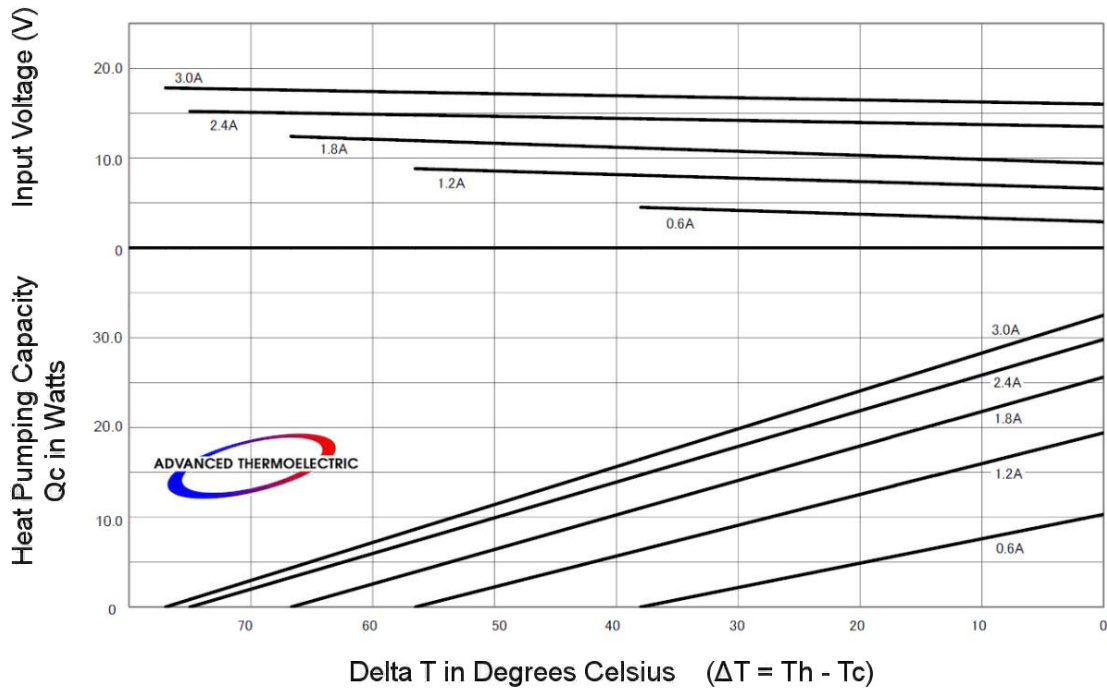
Advanced Thermoelectric, PO Box 1003, White River, VT 05001  
toll-free 1-866-665-5434 (603) 888-2467 [sales@electracool.com](mailto:sales@electracool.com)



TM 127-1.0-3.0 Performance Curves Th=27 °C



TM 127-1.0-3.0 Performance Curves Th=50 °C



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