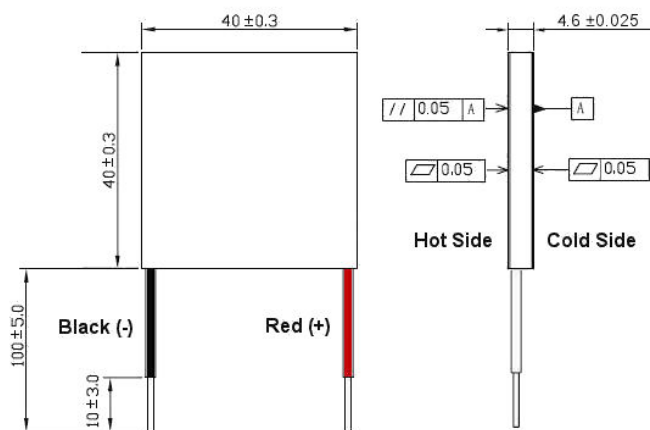




## Specifications (Hot-Side Temperature 27 °C)

$I_{\max}$ maximum current at $\Delta T_{\max}$	$V_{\max}$ maximum voltage at $\Delta T_{\max}$	$Q_{\text{c max}}$ maximum cooling capacity at $I_{\max}$ , $V_{\max}$ and $\Delta T = 0^\circ\text{C}$	$\Delta T_{\max}$ maximum temperature difference at $I_{\max}$ , $V_{\max}$ and $Q_{\text{c}} = 0\text{W}$	Internal Resistance
4.0 Amps	15.5 Volts	32 Watts	70 °C	3.15 $\Omega \pm 10\%$



Dimensions: 40 x 40 x 4.6 (mm)

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

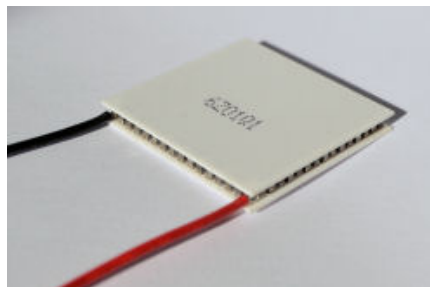
Maximum recommended compression: 1Mpa

Ceramics: Alumina (Al<sub>2</sub>O<sub>3</sub>)

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.*



With a cooling capacity of 32 watts, TM-127-1.4-4.0 is our least powerful single-stage thermoelectric module with a 40 x 40 mm footprint and intended for use with 12 to 15-volt DC power sources. This module is best used in applications where maximum coverage is desired but loads (or  $\Delta T$ 's) are not substantial. It's also an excellent choice if temperature stabilization near ambient is desired or if space for a hot-side heat-sink is limited. Often used in multi-module applications.

May be used for cooling, heating and temperature stabilization and is used in a wide range of applications including consumer goods, instrumentation, 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. Contact us for details.

Option Prices and Designations (Suffix):

RTV Edge sealing = "RTV"

Epoxy edge sealing = "E"

Lapping to ± 0.01mm = "L"

(for example TM-127-1.4-6.0 "EL")

**TM 127-1.4-4.0 Web Page Link**Contact [sales@electracool.com](mailto:sales@electracool.com) for a quotation

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

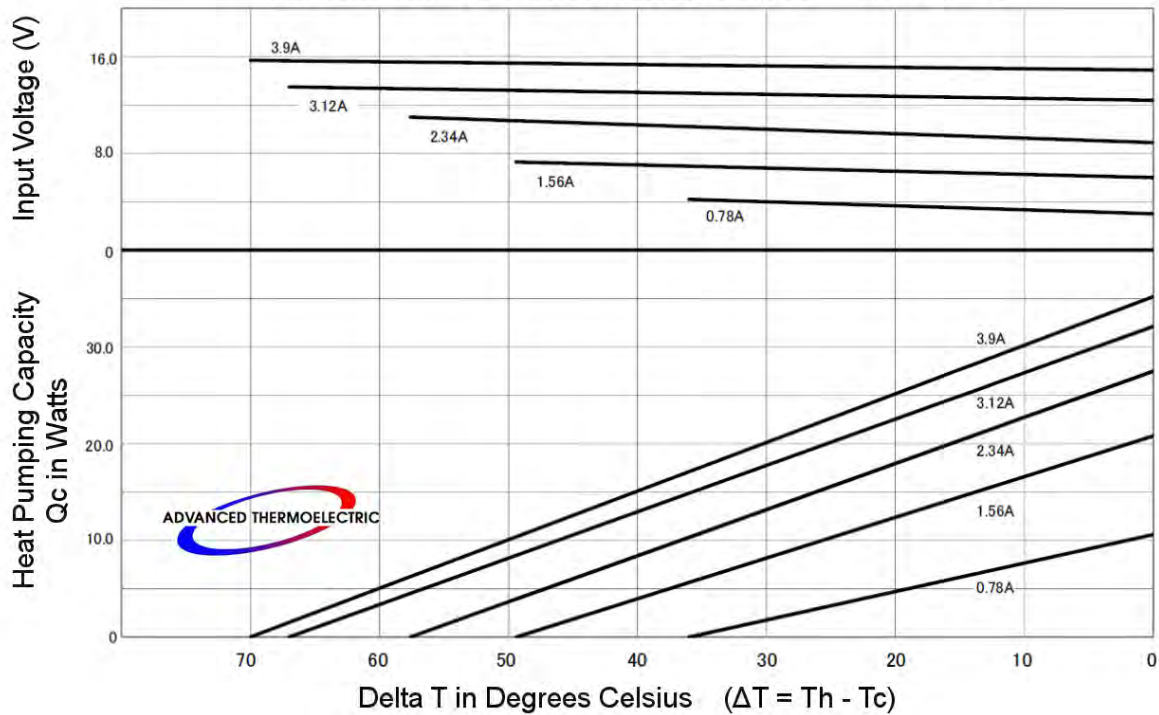
Advanced Thermoelectric toll-free 1-866-665-5434 (603) 888-2467 [sales@electracool.com](mailto:sales@electracool.com)



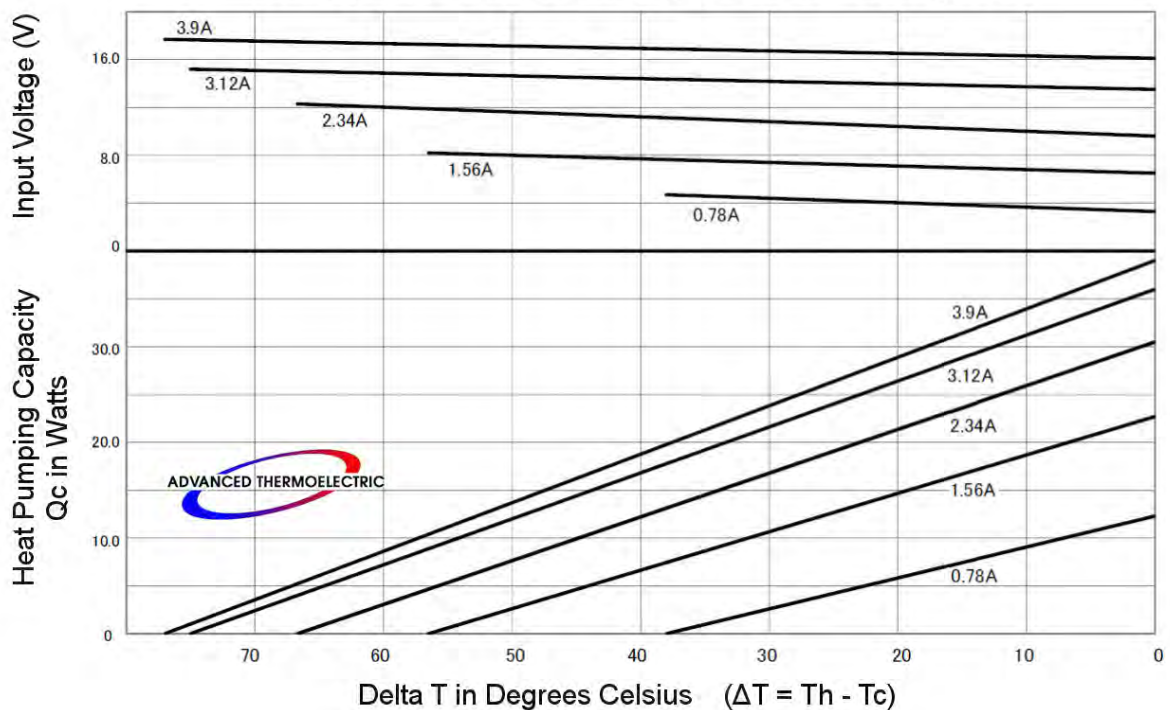
# TM-127-1.4-4.0

Thermoelectric Module

TM 127-1.4-4.0 Performance Curves  $T_h = 27^\circ\text{C}$



TM 127-1.4-4.0 Performance Curves  $T_h = 50^\circ\text{C}$



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