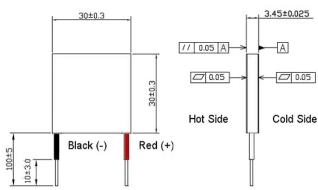


TM-71-1.4-8.5

Thermoelectric Cooling Module

Specifications (Hot-Side Temperature 27 °C)

${ m Imax}$ maximum current at ΔT_{max}	V _{max} maximum voltage at ΔT _{max}	$\begin{array}{c} \textbf{Qc}_{max} \\ \text{maximum cooling capacity} \\ \text{at } I_{\text{max}}, \ V_{\text{max}} \text{ and } \Delta T = 0 \ ^{\circ}\text{C} \end{array}$	$\begin{array}{c} \Delta T_{\text{max}} \\ \text{maximum temperature difference} \\ \text{at } I_{\text{max}} V_{\text{max}} \text{ and } Qc = 0W \end{array}$	Internal Resistance
8.5 Amps	8.8 Volts	43 Watts	70 °C	0.85 Ω ± 10%



Dimensions: 30 x 30 x 3.45mm

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 available.)

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

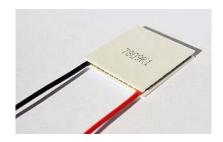
Maximum recommended compression: 1Mpa

Ceramics: Alumina (AL₂O₃)
Available with metalized and tinned surfaces

Lot number (only) printed on the cold-side ceramic.

RoHS Compliant

TM 71-1.4-8.5 Web Page



TM 71-1.4-8.5 is a popular multi-purpose single-stage thermoelectric module with a 30 x 30mm footprint. It is intended for use from 5 to 8 Volt DC power sources and it's a solid performer.

TM 71-1.4-8.5 may be used for cooling, heating and thermal stabilization and is employed in a wide range of applications including including medical, analytical, laboratory & scientific instruments, electro-optics, telecommunications and military. A version for thermal cycling is available.

In electro-optic and photonic applications, TM 71-1.4-8.5 is commonly used to maintain a constant temperature in order to stabilize the wavelength of a diode, detector or sensor.

Standard Options (PN Suffix):

RTV Edge sealing = "RTV" Epoxy edge sealing = "E" Lapping to ± 0.01mm = "L"

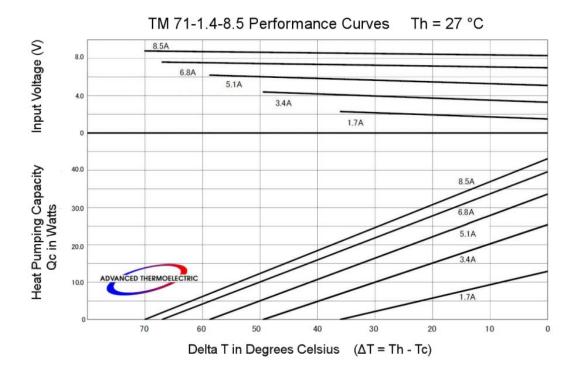
(for example TM-31-1.4-8.5 "EL")

Contact sales@electracool.com for a quotation

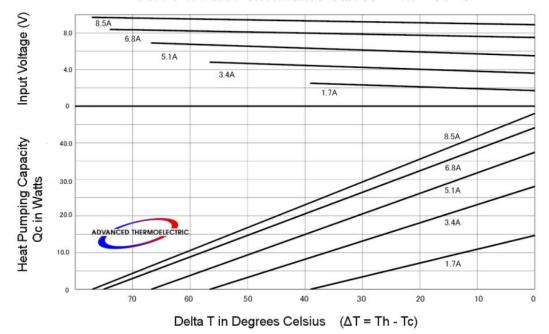


TM 71-1.4-8.5

Thermoelectric cooling Module



TM 71-1.4-8.5 Performance Curves Th = 50 °C



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