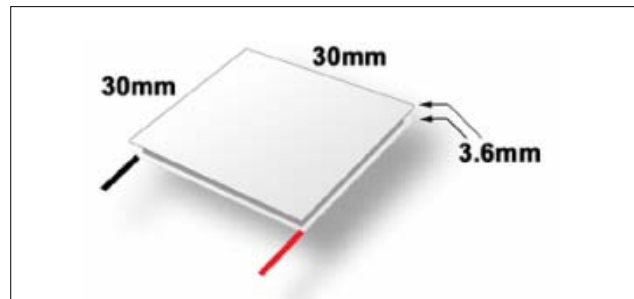
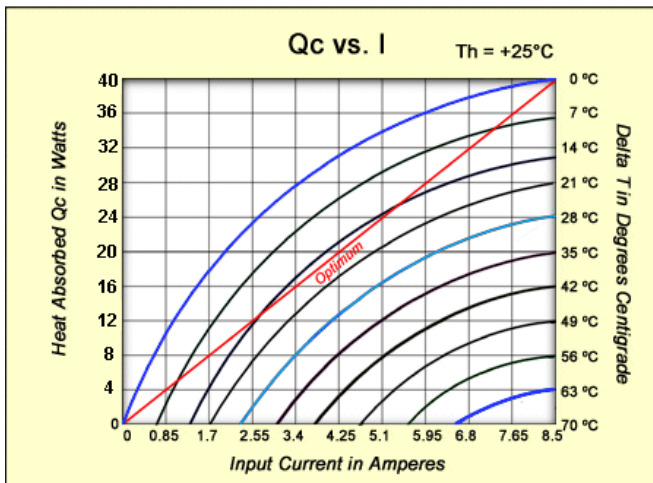
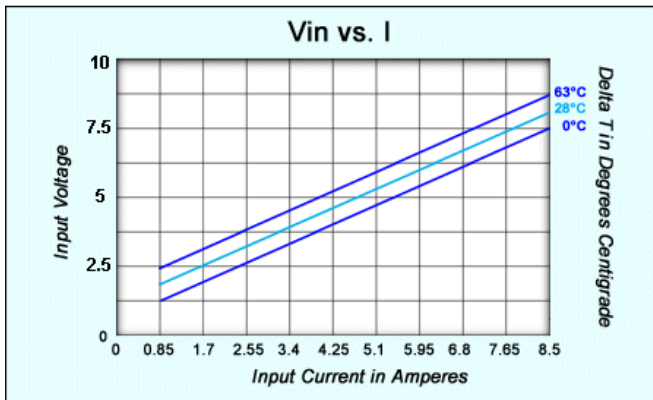


UNIT CODE	DESCRIPTION
TM-71-1.4-8.5	Thermoelectric Cooling Module

SPECIFICATIONS			
Current I_{max}	Voltage V_{max}	Cooling Capacity Q_{max}	Maximum Delta T ΔT_{max}
8.5 Amps	8.6 Volts	40 Watts	71 °C

PERFORMANCE CURVES ($T_h = 25\text{ °C}$)



TM-71-1.4-8.5 is our most powerful single-stage TEC in the 30 x 30 mm footprint, intended for use from 5 to 8.6 Volt DC power sources. Having the greatest Q_{max} may mean having to eject the greatest amount of heat and this module may require a fabricated heat-sink or liquid heat-sink in order to limit the "hot side" temperature increase to an acceptable level. Formerly was pn: HP-71-1.4-8.5

TM-71-1.4-8.5 may be used for cooling, heating and temperature stabilization and is employed in a wide range of applications including consumer, industrial, lab, scientific & biomedical, telecommunications, military, aerospace and test. This part is RoHS compliant.

Operating temperature -50°C +250°C
Height, flatness and parallel variance: $\pm 0.02\text{mm}$

Option Suffix designations:
[Anti-corrosion Potting](#) = "P"
[Epoxy edge sealing](#) = "E"
 Lapping to $\pm 0.01\text{mm}$ = "L"
 (for example HP-71-1.4-8.5"PE")

Prices: 100+ \$14.95 1K+ \$11.45

All specifications, data and drawings are subject to change without notice Rev: January 2010

Module Characteristics and Value Descriptions:

I_{max} is the maximum (optimal) input current in amperes.
 V_{max} is the maximum input voltage in volts when the current is optimal (I_{max}).
 Q_{max} is the maximum amount of heat the module is capable of pumping. This value is achieved when there is no difference in the temperature ($DT=0$) on the modules two surfaces. If your application requires cooling, the heat pumping capacity will be less.
 ΔT_{max} or DT_{max} is the maximum temperature differential between the hot and cold side of the module with no heat load ($Q=0$). As the thermal mass of the object to be cooled increases the ΔT narrows until Q_{max} is reached and $\Delta T=0$.