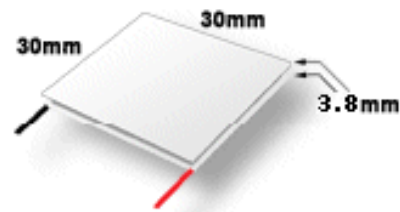
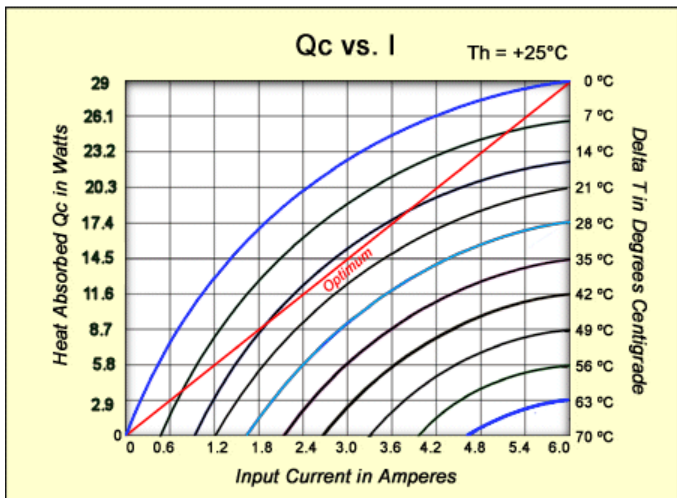
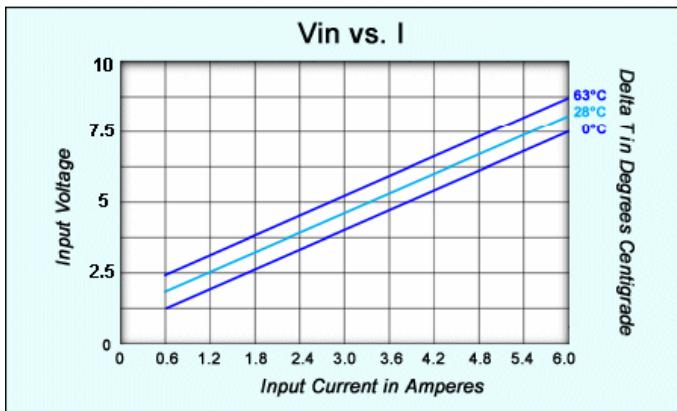


UNIT CODE	DESCRIPTION
TM-71-1.4-6.0	Thermoelectric Cooling Module

SPECIFICATIONS			
Current I_{max}	Voltage V_{max}	Cooling Capacity Q_{max}	Maximum Delta T ΔT_{max}
6.0 Amps	8.6 Volts	29 Watts	70 °C

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



This multi-purpose single-stage thermoelectric module "TEC" is our most popular in the 30 x 30mm footprint. It is intended for use from 5 to 8.6 Volt DC power sources. Although it doesn't have the greatest Q_{max} in this configuration, it's a solid performer that can be used with a very wide variety of economical extruded heat-sinks without the hot-side temperature becoming unreasonably high.

TM-71-1.4-6.0 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. Formerly was pn: HP-71-1.4-6.0 - 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 $\Delta T=0$.