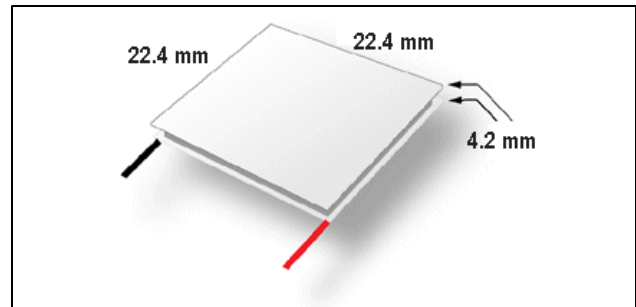
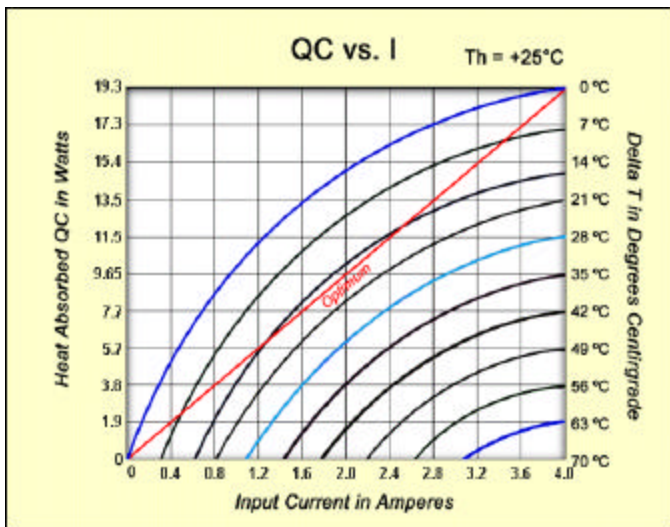
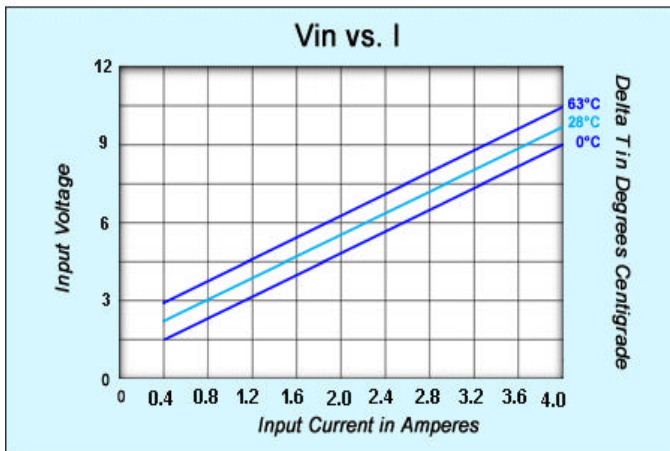


UNIT CODE	DESCRIPTION
ST-71-1.0-4.0	Thermoelectric Cooling Module

SPECIFICATIONS			
Current I_{max}	Voltage V_{max}	Cooling Capacity Q_{max}	Maximum Delta T DT_{max}
4.0 Amps	9.75 Volts	19.3 Watts	71 °C

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



This Multi-purpose module is our most popular 22.4 x 22.4mm cooler intended for use with a 5 to 8.6 Volt DC power source. ST-71-1.0-4.0 may be used for cooling, heating and thermal stabilization and is employed in a wide range of applications including QC/test, lab/scientific, electro optic/telecommunications, biomedical, consumer and aerospace/military

A "HP" High Performance version available
 100% QC (C of C available by Lot)
 Operating temperature -50°C +200°C
 Height, flatness and parallel variance: ± 0.02mm

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

All specifications, data and drawings are subject to change without notice Rev: 5/04

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 becomes fewer degrees until Q_{max} is reached and $\Delta T=0$.