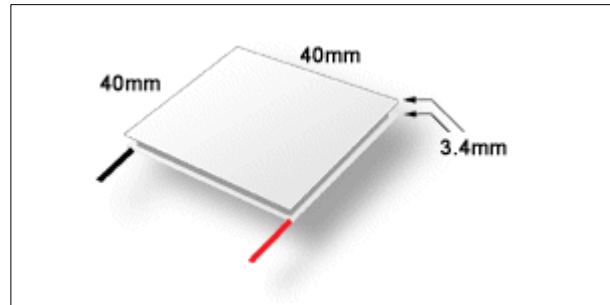
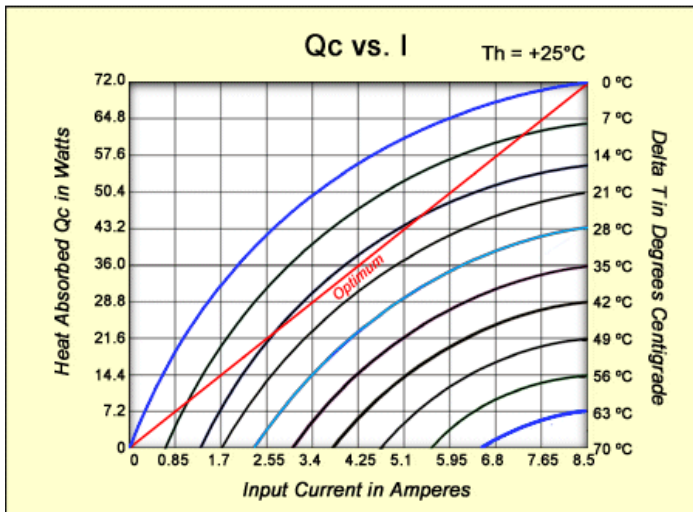
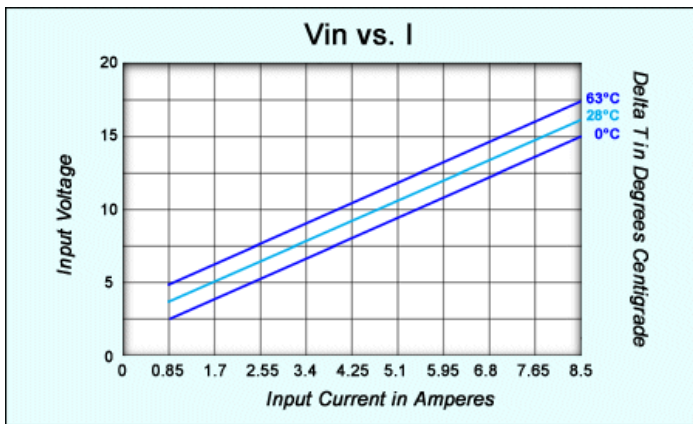


UNIT CODE	DESCRIPTION
HP-127-1.4-8.5	Thermoelectric Cooling Module

SPECIFICATIONS			
Current I_{max}	Voltage V_{max}	Cooling Capacity Q_{max}	Maximum Delta T DT_{max}
8.5 Amps	17.5 Volts	80 Watts	70 °C

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



Similar in size and performance to our standard series modules our "High Performance" modules are built with a different type of ceramics, solder rated for higher operating temperatures and improved antidiffusion barriers that allow the modules to be used in applications with a hot side temperature as high as +200°C (+230°C solder is available) or in applications that involve thermal cycling.

For these reasons HP-127-1.4-8.5 is suitable for a wide range of challenging applications including QC/Test, lab/scientific, biomedical, military, aerospace and industrial. Also available with porch, metallized and tinned surfaces and in strings from 2-12 modules long. (Reasonable minimum order requirements)

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 ± 0.01mm = "L"
 (for example HP-127-1.4-8.5"PE")

All specifications, data and drawings are subject to change without notice Rev: 1/03

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.
 DT_{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 DT becomes fewer degrees until Q_{max} is reached and $DT=0$.