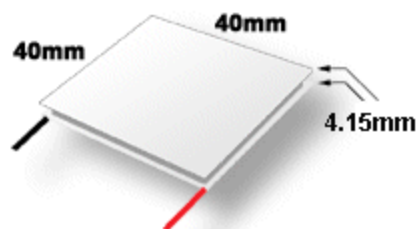
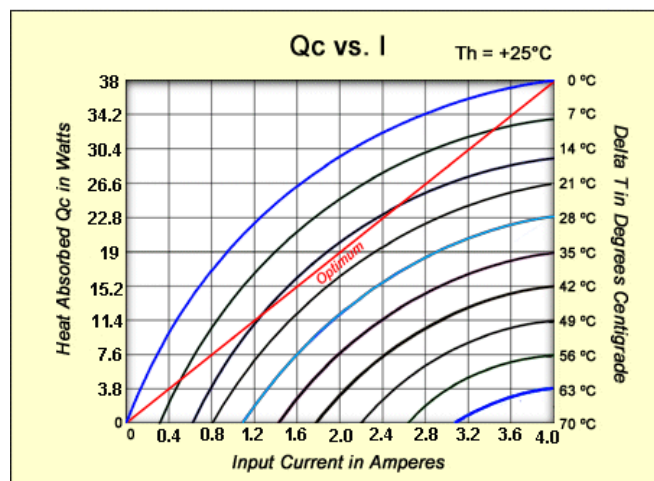
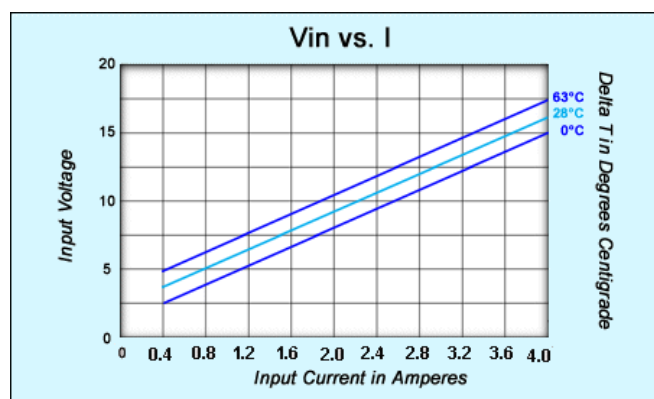


UNIT CODE	DESCRIPTION
HP-127-1.4-4.0	Thermoelectric Cooling Module

SPECIFICATIONS			
Current I_{max}	Voltage V_{max}	Cooling Capacity Q_{max}	Maximum Delta T DT_{max}
4.0 Amps	17.5 Volts	38 Watts	71 °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 different 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-127-1.4-4.0 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 ± 0.01 mm = "L"
(for example HP-127-1.4-4.0"PE")

All specifications, data and drawings are subject to change without notice Rev: 3/04

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