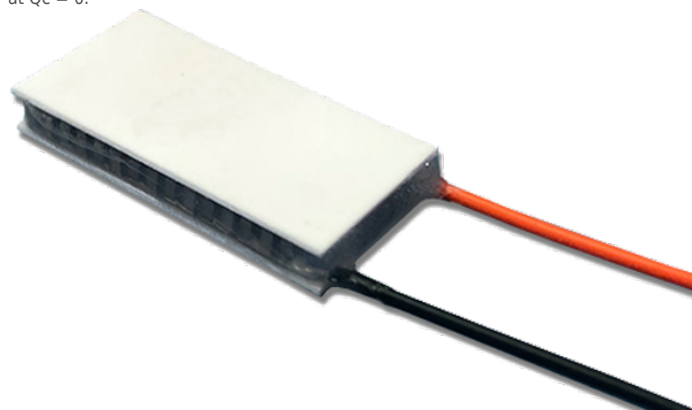


HiTemp ETX Series Thermoelectric Cooler

The ETX2.6-6-F1-1225-TA-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 12.7 Watts when $\Delta T = 0$ and a maximum ΔT of 83.2 °C at Qc = 0.

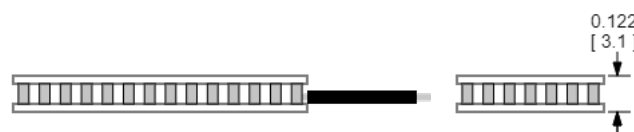
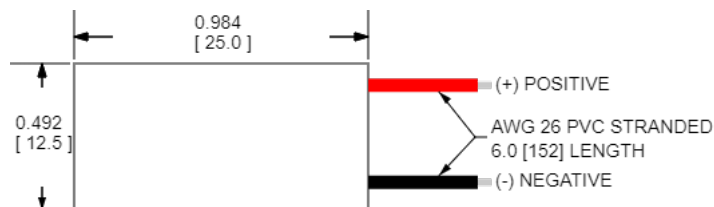


Features

- High-temperature operation
- Reliable solid-state
- No sound or vibration
- Environmentally-friendly
- RoHS-compliant

Applications

- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Peltier Cooling for Digital Light Processors
- Heating and Cooling for Liquid Chromatography Systems
- Thermoelectric Cooling for Security Cameras

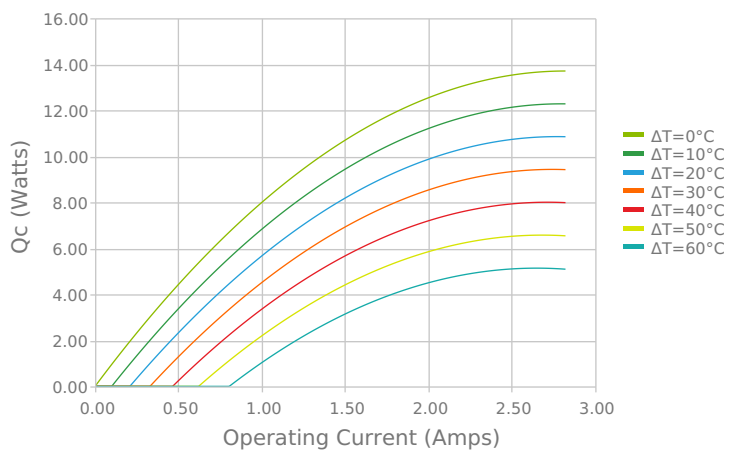


CERAMIC MATERIAL: Al_2O_3
SOLDER CONSTRUCTION: 232°C, SbSn

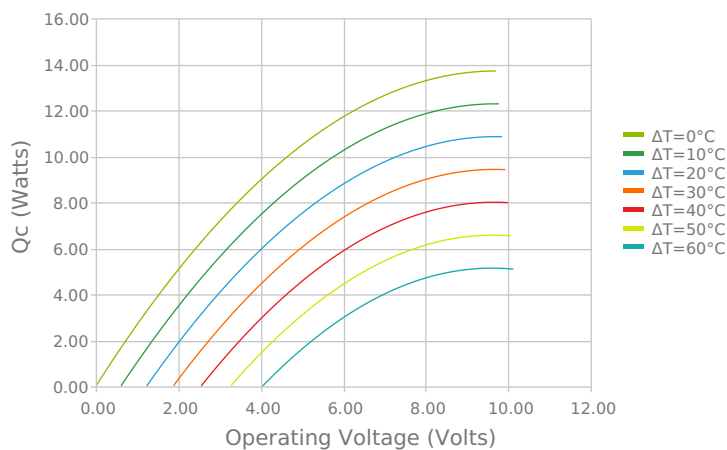
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

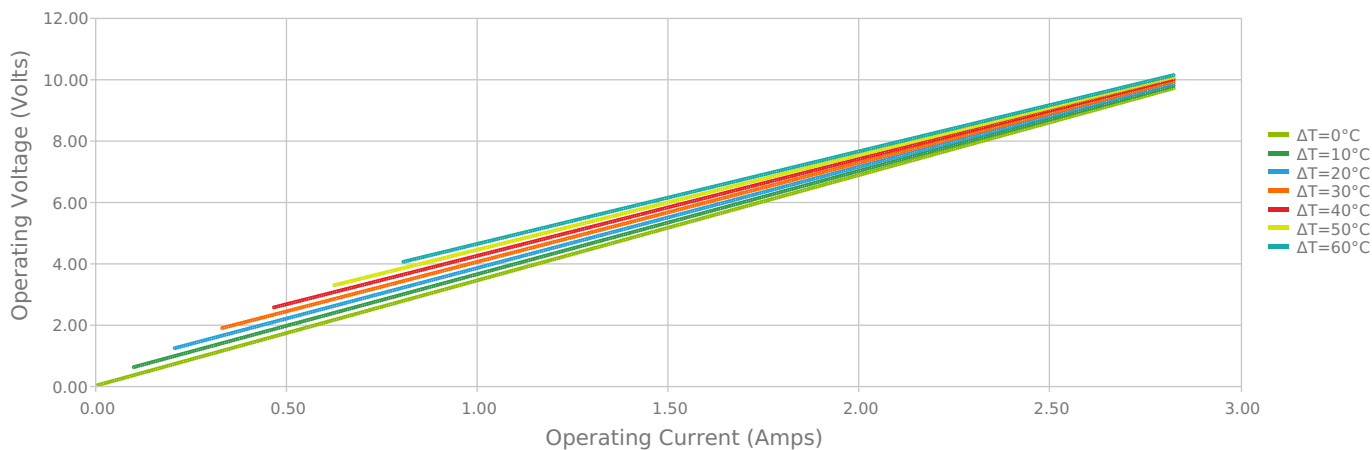
Heat Pumped at Cold Side
Thot = 85 °C



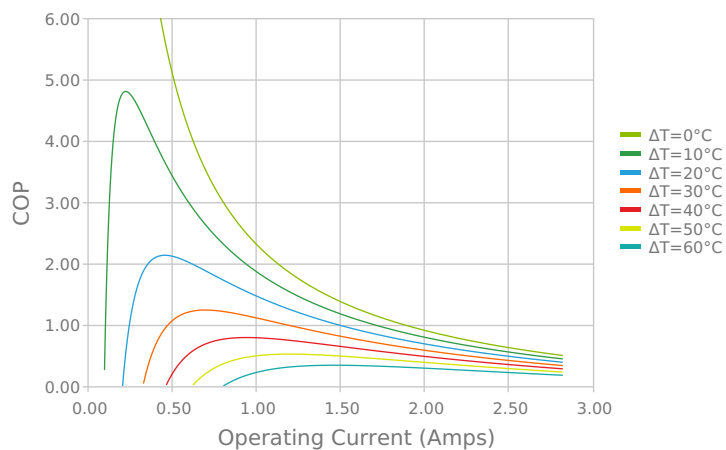
Heat Pumped at Cold Side
Thot = 85 °C



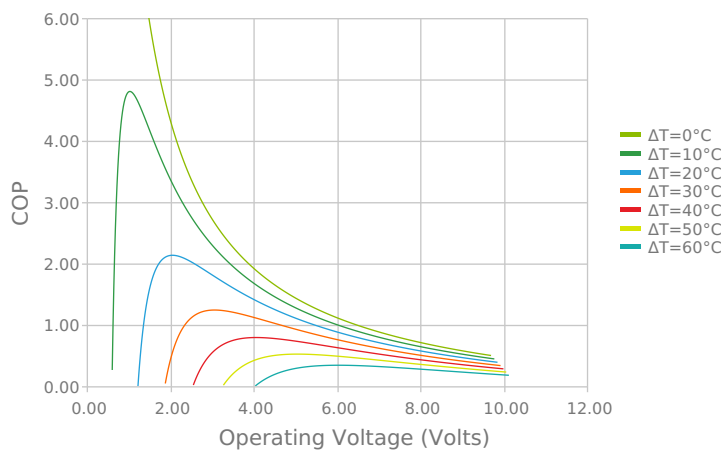
Current vs Voltage (I vs V)
Thot = 85 °C



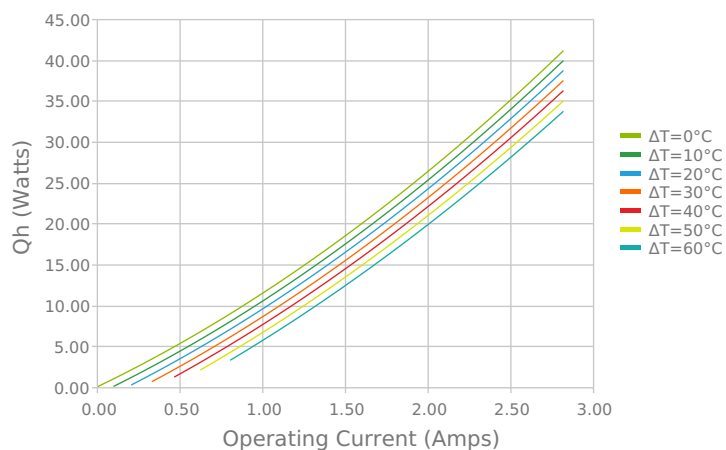
Coefficient of Performance (COP = Q_c/P_{in})
 $T_{hot} = 85\text{ }^{\circ}\text{C}$



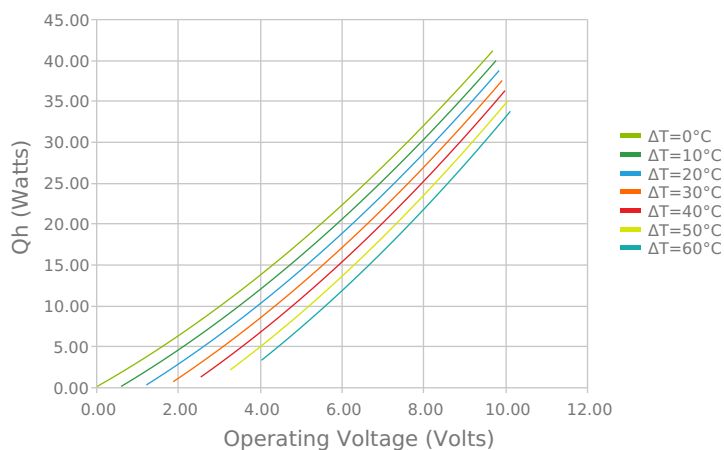
Coefficient of Performance (COP = Q_c/P_{in})
 $T_{hot} = 85\text{ }^{\circ}\text{C}$



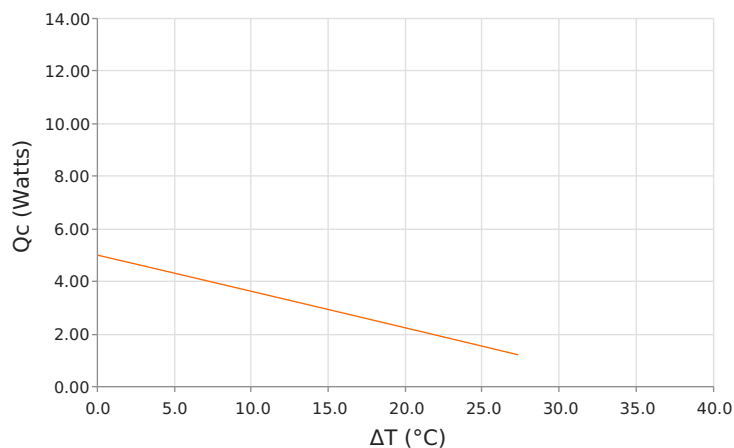
Total Heat Dissipated at Hot Side ($Q_h = Q_c + P_{in}$)
 $T_{hot} = 85\text{ }^{\circ}\text{C}$



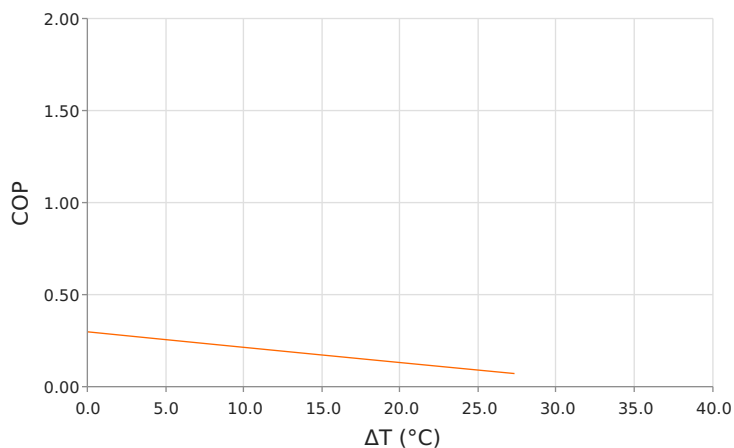
Total Heat Dissipated at Hot Side ($Q_h = Q_c + P_{in}$)
 $T_{hot} = 85\text{ }^{\circ}\text{C}$



Heat Pumped at Cold Side (Q_c)
 $T_{hot} = 85\text{ }^{\circ}\text{C}$ | Current = 2.1 Amps



Coefficient of Performance (COP = Q_c/P_{in})
 $T_{hot} = 85\text{ }^{\circ}\text{C}$ | Current = 2.1 Amps



SPECIFICATIONS*

Hot Side Temperature

Qcmax ($\Delta T = 0$)

ΔT_{max} ($Q_c = 0$)

I_{max} (I @ ΔT_{max})

V_{max} (V @ ΔT_{max})

Module Resistance

Max Operating Temperature

Weight

	50.0 °C	85.0 °C	110.0 °C
Qcmax ($\Delta T = 0$)	12.7 Watts	13.7 Watts	14.1 Watts
ΔT_{max} ($Q_c = 0$)	83.2°C	95.3°C	102.0°C
I _{max} (I @ ΔT_{max})	2.6 Amps	2.5 Amps	2.5 Amps
V _{max} (V @ ΔT_{max})	8.2 Volts	9.5 Volts	10.3 Volts
Module Resistance	2.94 Ohms	3.43 Ohms	3.76 Ohms
Max Operating Temperature	150 °C		
Weight	4.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
TA	3.099 ±0.025 mm 0.122 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	152.4 mm 6.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

1. Max operating temperature: 150°C
2. Do not exceed I_{max} or V_{max} when operating module
3. Reference assembly guidelines for recommended installation

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Date: 12/14/2021

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