HiTemp ETX Series ETX8-7-F2-3030-TA-RT-W6 MFG Part Number: 387004955

HiTemp ETX Series Thermoelectric Cooler **Features Applications** Peltier Cooling for Refrigerated Centrifuges The ETX8-7-F2-3030-TA-RT-W6 high temperature, high-performance • High-temperature operation Reliable solid-state • Peltier Cooling for Machine Vision thermoelectric cooler uses Laird Thermal Systems' enhanced No sound or vibration • Thermoelectric Cooling for CMOS Sensors thermoelectric module construction preventing performance degrading Cooling Solutions for Autonomous Systems · Environmentally-friendly diffusion, which is common in standard grade thermoelectric coolers • Peltier Cooling for Digital Light Processors RoHS-compliant operating in high temperature environments exceeding 80 °C. It has a Heating and Cooling for Liquid Chromatography Systems maximum Qc of 47 Watts when $\Delta T = 0$ and a maximum ΔT of 83.2 °C at • Thermoelectric Cooling for Security Cameras Qc = 0.1.339 [34.0] = (+) POSITIVE AWG 18 PTFE STRANDED 6.0 [152] LENGTH 1.181 [30.0 (-) NEGATIVE 0.137 1.181 [3.5] [30.0] CONTROL SIDE RTV SEALANT HEATSINK SIDE

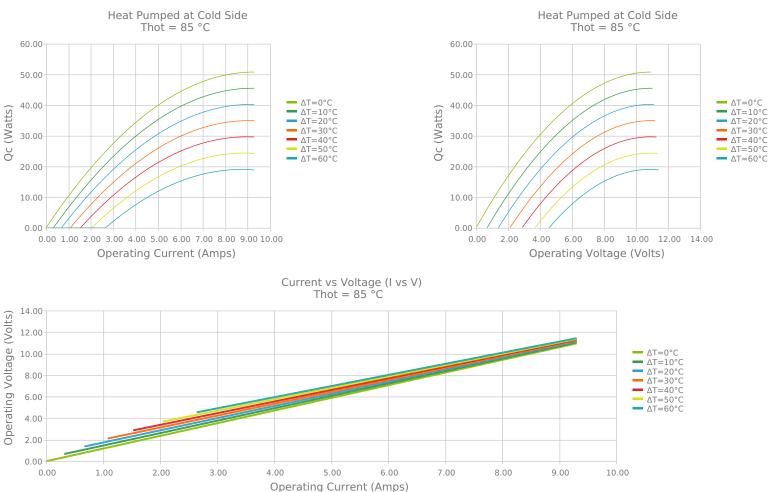
CERAMIC MATERIAL: Al2O3

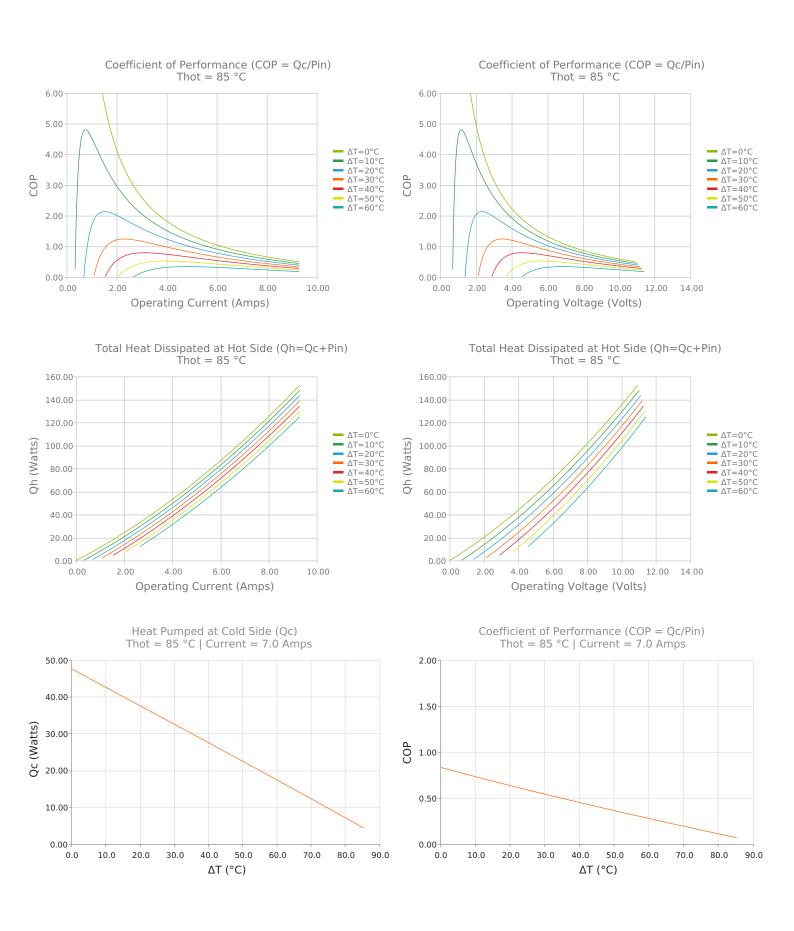
INCHES [MM]

SOLDER CONSTRUCTION: 232°C, SbSn Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

ELECTRICAL AND THERMAL PERFORMANCE

For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.





SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	47.0 Watts	50.8 Watts	52.4 Watts
ΔTmax (Qc = 0)	83.2°C	95.3°C	102.0°C
lmax (I @ ΔTmax)	8.6 Amps	8.3 Amps	8.1 Amps
Vmax (V @ ΔTmax)	9.3 Volts	10.7 Volts	11.6 Volts
Module Resistance	1.01 Ohms	1.18 Ohms	1.29 Ohms
Max Operating Temperature	150 °C		
Weight	14.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТА	3.480 ±0.025 mm 0.137 ± 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
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

NOTES

- 1. Max operating temperature: 150°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

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