Legacy Product

UltraTEC™ UT Series Thermoelectric Cooler

Note: This product is not recommended for new designs.

Laird THERMAL SYSTEMS

This product series has been replaced with the UltraTEC UTX Series. The recommended replacement is:

MFG Part Number: 387004717

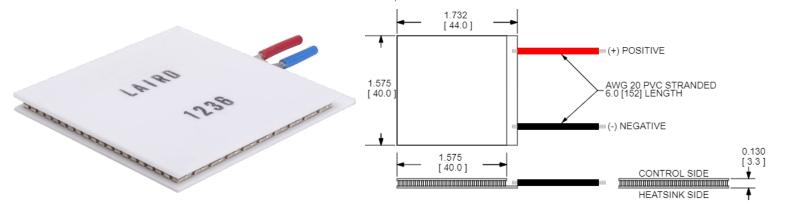
Description: UTX15-200-F2-4040-TB-W6

Features

- High heat pump density
- Precise temperature control
- Reliable solid-state operation
- No sound or vibrationDC operation
- RoHS-compliant

Applications

- Thermoelectric Coolers and Assemblies for Medical Applications
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Industrial Laser Cooling
- Peltier Cooling for Digital Light Processors

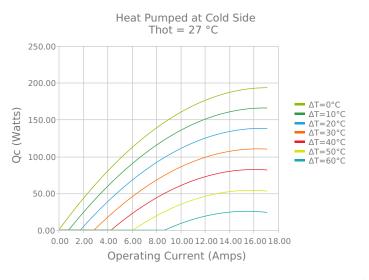


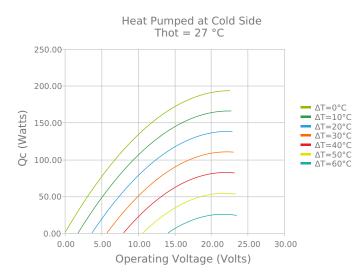
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

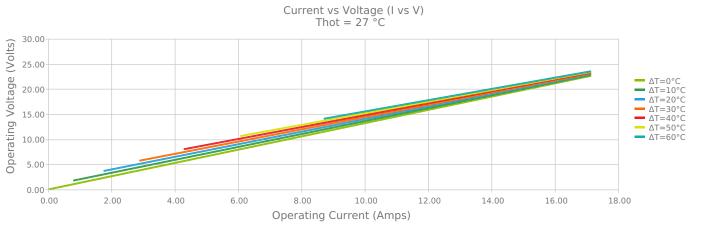
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

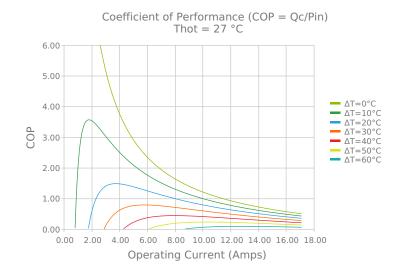
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

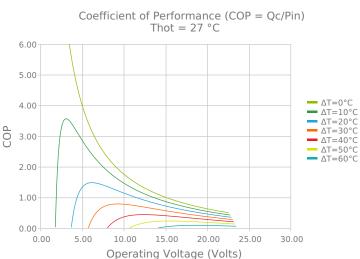


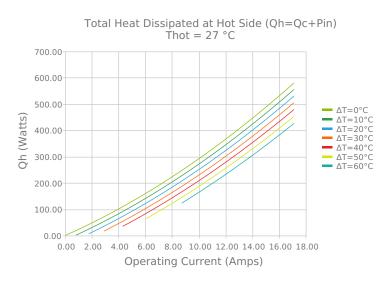


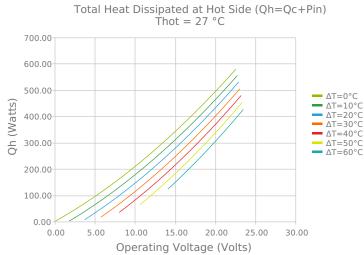


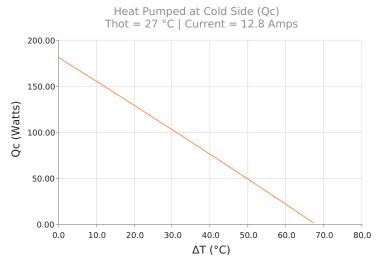


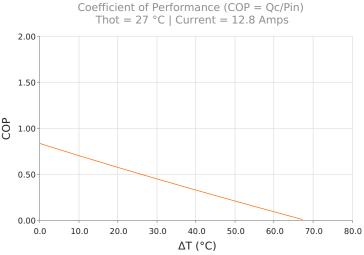












Legacy Product



SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

^{*} Specifications reflect thermoelectric coefficients updated March 2020

27.0 °C	35.0 °C	50.0 °C	
193.4 Watts	199.3 Watts	209.7 Watts	
68.9°C	71.8°C	77.0°C	
15.2 Amps	15.1 Amps	14.9 Amps	
21.5 Volts	22.3 Volts	23.8 Volts	
1.32 Ohms	1.38 Ohms	1.48 Ohms	
80 °C			
36.0 gram(s)			

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	3.300 ±0.013 mm 0.130 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 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: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

Any information furnished by Laird and its agents, whether in specifications, data sheets, product catalogues or otherwise, is believed to be (but is not warranted as being) accurate and reliable, is provided for information only and does not form part of any contract with Laird. All specifications are subject to change without notice. Laird assumes no responsibility and disclaims all liability for losses or damages resulting from use of or reliance on this information. All Laird products are sold subject to the Laird Terms and Conditions of sale (including Laird's limited warranty) in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2019-2022 Laird Thermal Systems, Inc. All rights reserved. Laird™, the Laird Ring Logo, and Laird Thermal Systems™ are trademarks or registered trademarks of Laird Limited or its subsidiaries.

UltraTEC™ is a trademark of Laird Thermal Systems, Inc. All other marks are owned by their respective owners.

Revision: 00 Date: 06-01-2022 Print Date: 06-15-2022