

## UltraTEC™ UT Series Thermoelectric Cooler

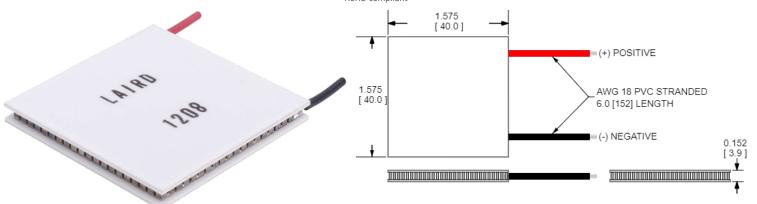
This product has reached end of production and is available on a limited basis only. This product series has been replaced with the UltraTEC UTX Series product offering. Consider using the UTX6-19-F1-4040-TA-W6 UltraTEC UTX Series module as a replacement.

#### **Features**

- High heat pump density
- Precise temperature control
- Reliable solid-state operationNo sound or vibration
- DC operation
- RoHS-compliant

#### **Applications**

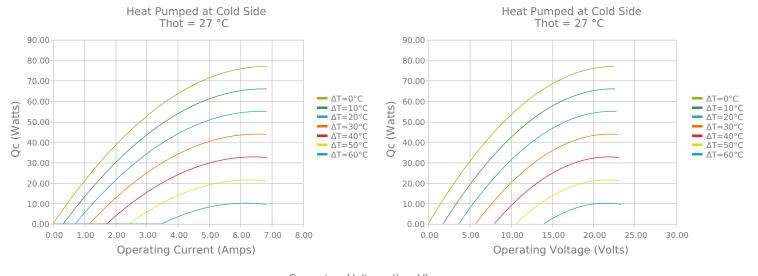
- Thermoelectric Coolers and Assemblies for Medical Applications
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Industrial Laser Cooling
- Peltier Cooling for Digital Light Processors

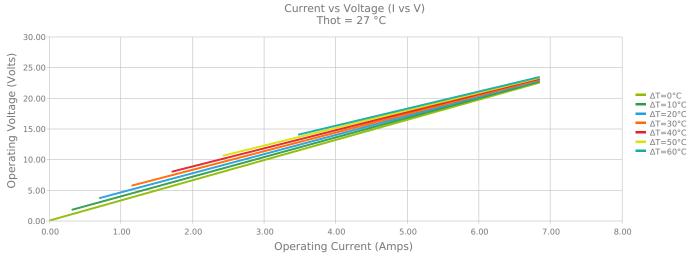


CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

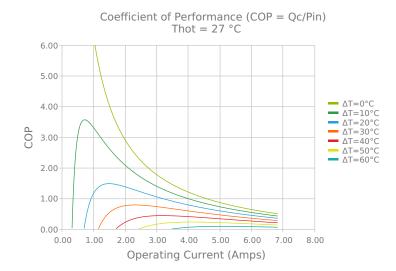
INCHES [ MM ]

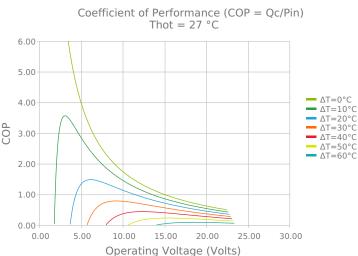
## **ELECTRICAL AND THERMAL PERFORMANCE**

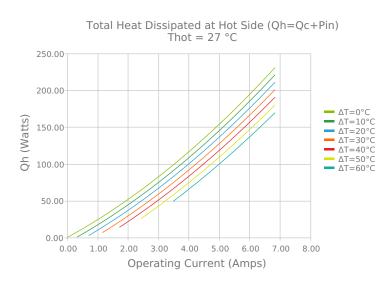


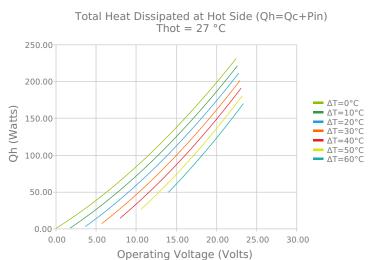


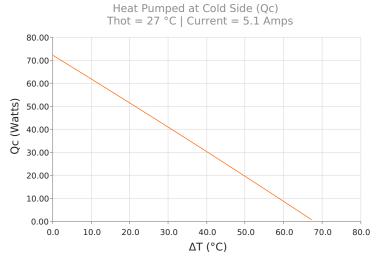


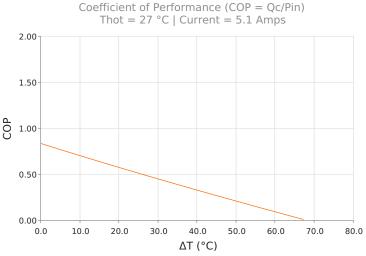














# **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Darmax)

Vmax (V @  $\Delta$ Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

27.0 °C	35.0 °C	50.0 °C
77.0 Watts	79.3 Watts	83.4 Watts
68.9°C	71.8°C	77.0°C
6.1 Amps	6.0 Amps	6.0 Amps
21.4 Volts	22.2 Volts	23.7 Volts
3.28 Ohms	3.42 Ohms	3.68 Ohms
80 °C		
29.0 gram(s)		

## **FINISHING OPTIONS**

Suffix	Thickness	Thickness Flatness / Parallelism		Cold Face	Lead Length	
ТВ	3.861 ±0.013 mm 0.152 ± 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	<b>Temp Range</b>	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

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Date: 08/30/2021

<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020