

## UltraTEC™ UT Series Thermoelectric Cooler

### Note: This product is not recommended for new designs.

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

MFG Part Number: 387004719

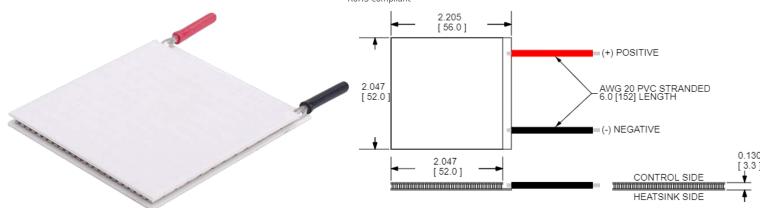
Description: UTX15-24-F2-5252-TA-W6

#### **Features**

- High heat pump density
- Precise temperature control
- Reliable solid-state operation
- No sound or vibration
- DC operationRoHS-compliant

#### **Applications**

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

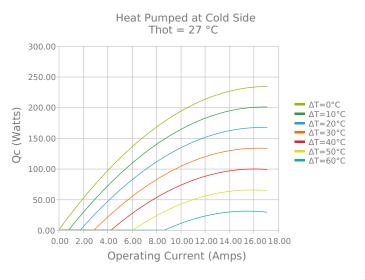


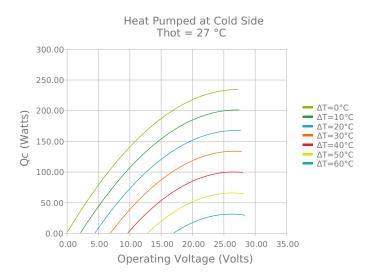
CERAMIC MATERIAL: Al₂O₂ SOLDER CONSTRUCTION: 138°C, BiSn

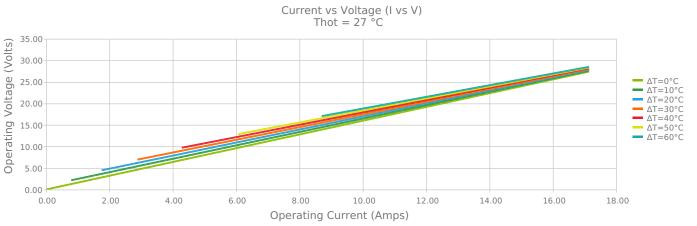
INCHES [ MM ]

### **ELECTRICAL AND THERMAL PERFORMANCE**

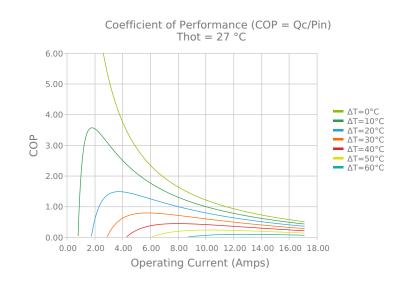
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

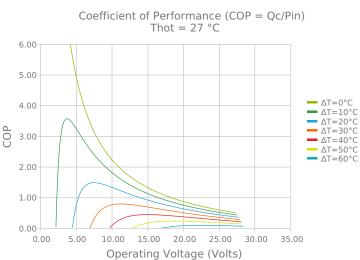


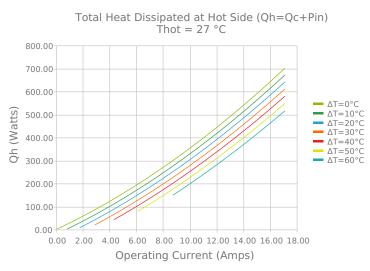


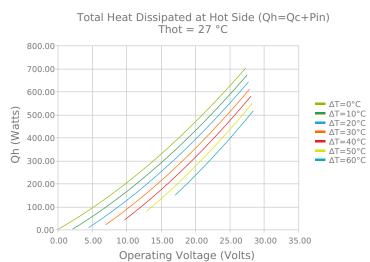


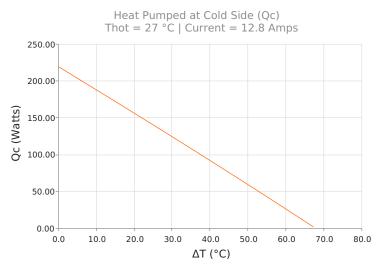


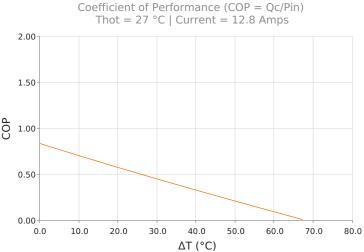














# **SPECIFICATIONS\***

Hot	Side	Temperature

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Delta Tmax)

Vmax (V @ \Delta Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

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

27.0 °C	35.0 °C	50.0 °C
234.0 Watts	241.1 Watts	253.7 Watts
68.9°C	71.8°C	77.0°C
15.2 Amps	15.1 Amps	14.9 Amps
26.0 Volts	27.0 Volts	28.8 Volts
1.60 Ohms	1.66 Ohms	1.79 Ohms
80 °C		
47.0 gram(s)		

## **FINISHING OPTIONS**

Suffix		Thickness	Flatness / Parallelism	<b>Hot Face</b>	Cold Face	<b>Lead Length</b>	
TA $3.300 \pm 0.025 \text{ mm}$ $0.130 \pm 0.0010 \text{ in}$			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: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

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