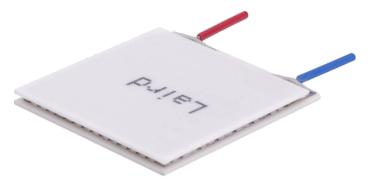
UltraTEC[™] UT Series Thermoelectric Cooler

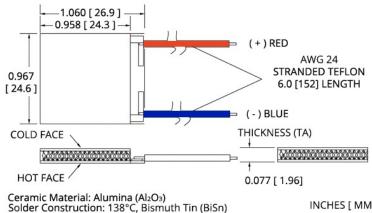
The UT8-12-F2-2525-TA-W6 is a high heat flux density thermoelectric cooler. The thermoelectric module is assembled with a large number of semiconducting thermoelectric couples to achieve a higher heat pumping capacity than standard single stage thermoelectric coolers. It has a maximum Qc of 63.8 Watts when $\Delta T = 0$ and a maximum ΔT of 68.9 °C at Qc = 0.

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

Applications

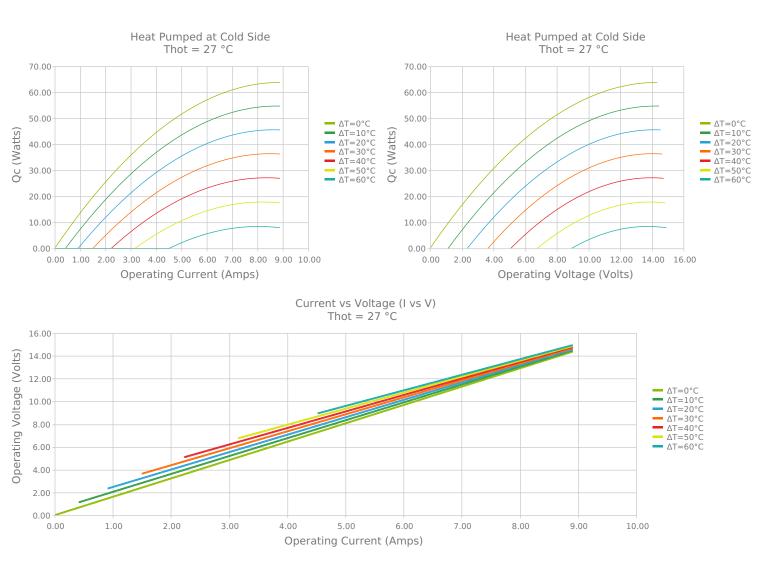
- Thermoelectric Coolers and Assemblies for Medical Applications
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Industrial Laser Cooling
- Peltier Cooling for Digital Light Processors

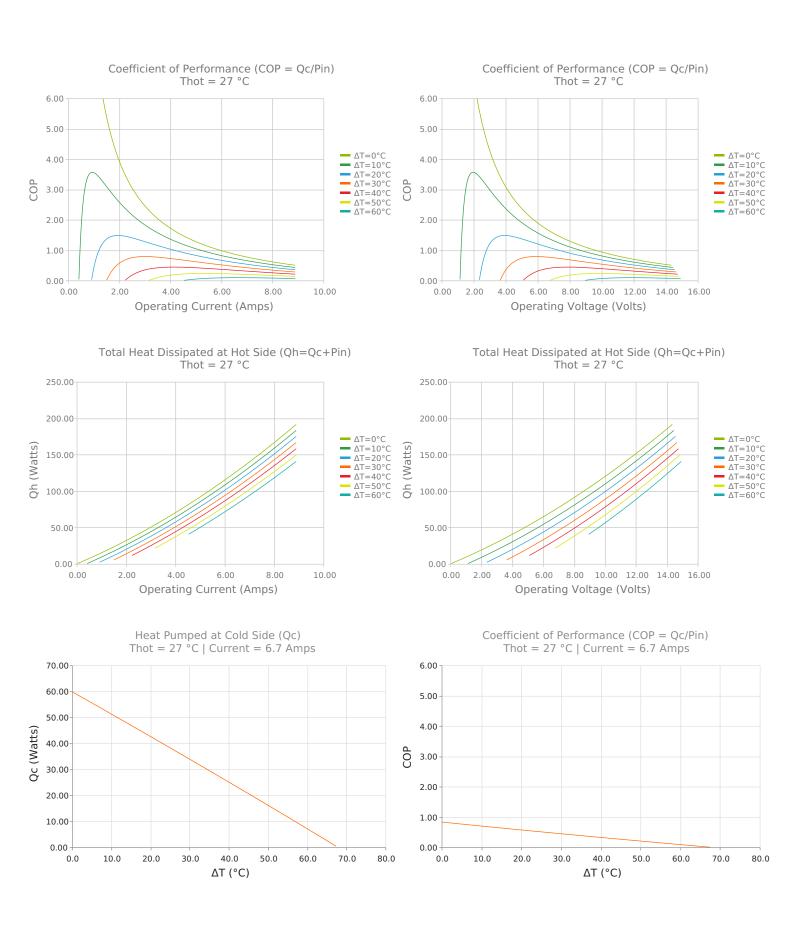




INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE





SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	63.8 Watts	65.8 Watts	69.2 Watts
$\Delta Tmax (Qc = 0)$	68.9°C	71.8°C	77.0°C
lmax (I @ ΔTmax)	7.9 Amps	7.8 Amps	7.8 Amps
Vmax (V @ ΔTmax)	13.6 Volts	14.2 Volts	15.1 Volts
Module Resistance	1.61 Ohms	1.68 Ohms	1.81 Ohms
Max Operating Temperature	80 °C		
Weight	7.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	C Thickness Flatness / Parallelism		Hot Face	Cold Face	Lead Length
ТА	1.956 ±0.025 mm 0.077 ± 0.001 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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Date: 04/24/2020