

HiTemp ET Series ET15-28-F2-5252-TA-RT-W6 MFG Part Number: 387001828 Legacy Product

HiTemp ET Series Thermoelectric Cooler **Features Applications** Peltier Cooling for Refrigerated Centrifuges Note: This product is not recommended for new designs. • High-temperature operation • Peltier Cooling for Machine Vision Reliable solid-state This product series has been replaced with the HiTemp ETX Series. No sound or vibration • Thermoelectric Cooling for CMOS Sensors The recommended replacement is: Cooling Solutions for Autonomous Systems Environmentally-friendly MFG Part Number: 387004921 Peltier Cooling for Digital RoHS-compliant Description: ETX15-28-F2-5252-TA-RT-W6 Light Processors 2.205 [56.0] (+) POSITIVE 2 0 4 7 AWG 20 PVC STRANDED 6.0 [152] LENGTH [52.0 (-) NEGATIVE 0.130 2.047 [3.3] [52.0] CONTROL SIDE RTV SEALANT HEATSINK SIDE

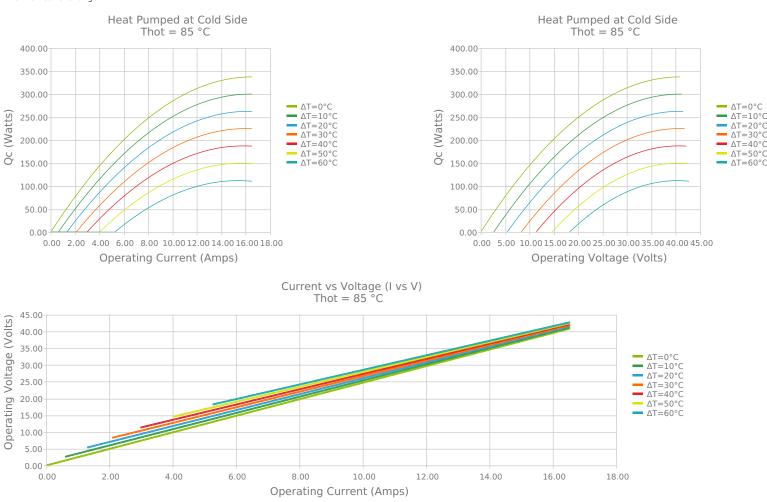
CERAMIC MATERIAL: Al2O3

INCHES [MM]

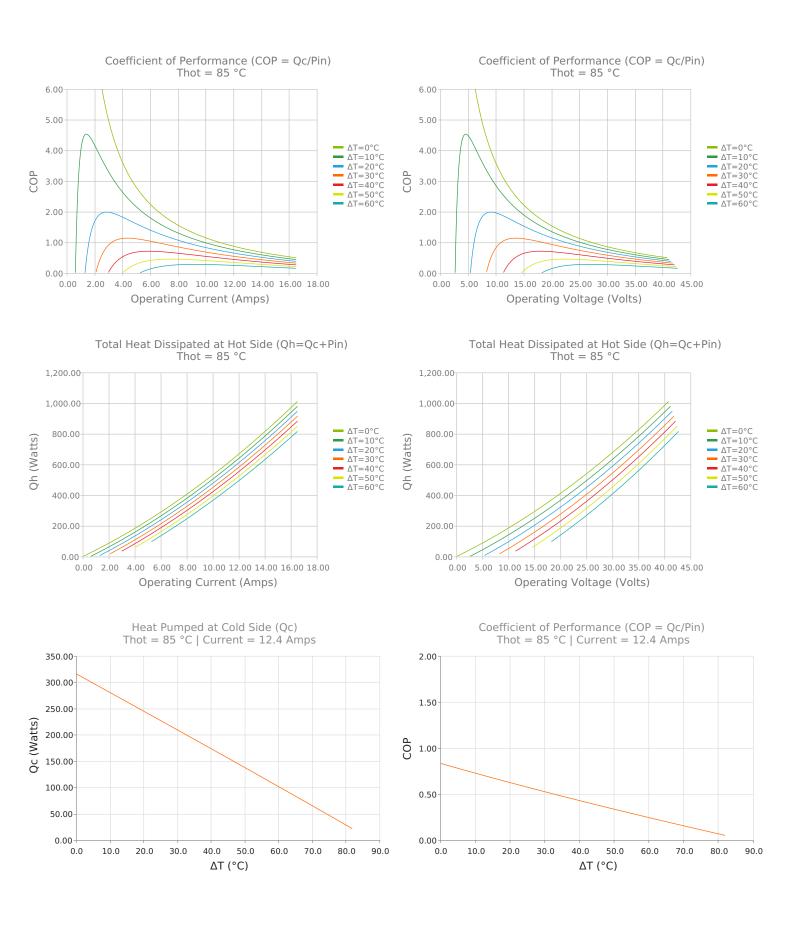
SOLDER CONSTRUCTION: 232°C, SbSn Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

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 (ΔT = 0)	307.6 Watts	337.2 Watts	352.2 Watts
ΔTmax (Qc = 0)	77.9°C	89.3°C	96.2°C
lmax (I @ ΔTmax)	15.0 Amps	14.7 Amps	14.4 Amps
Vmax (V @ ΔTmax)	34.6 Volts	39.8 Volts	43.3 Volts
Module Resistance	2.13 Ohms	2.47 Ohms	2.71 Ohms
Max Operating Temperature	150 °C		
Weight	53.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	3.300 ±0.051 mm 0.130 ± 0.0020 in	0.051 mm / 0.051 mm 0.002 in / 0.002 in	Lapped	Lapped	50.8 mm 2.00 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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Revision: 00 Date: 06-01-2022

Print Date: 06-15-2022