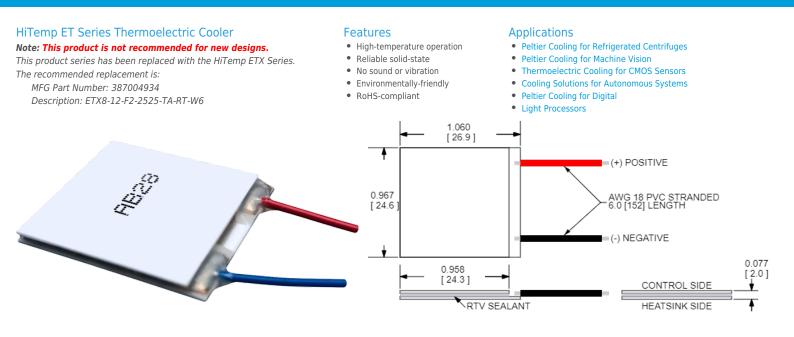


HiTemp ET Series ET8-12-F2-2525-TA-RT-W6 **MFG Part Number: 387001823** Legacy Product



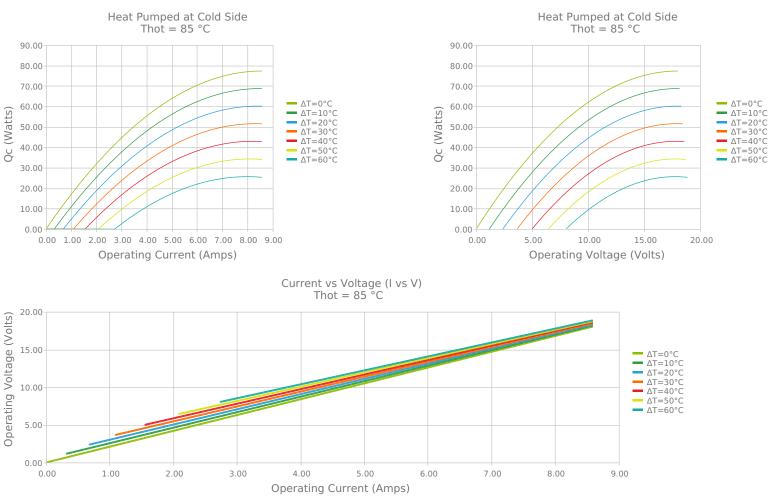
CERAMIC MATERIAL: Al2O3

INCHES [MM]

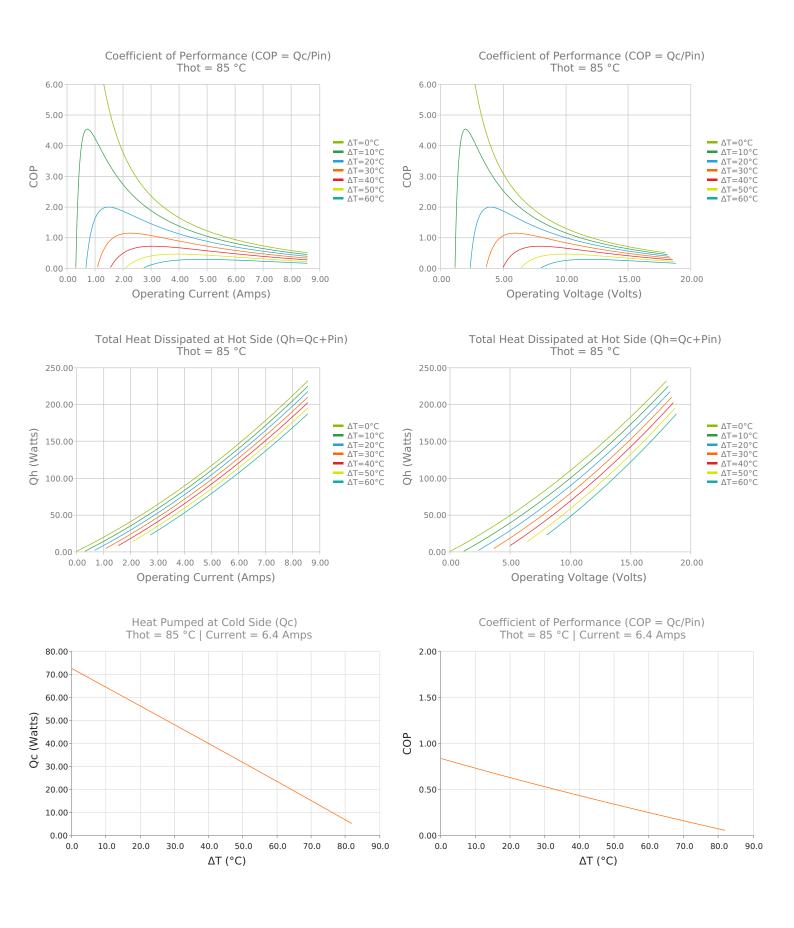
SOLDER CONSTRUCTION: 232°C, SbSn Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

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 |
|---------------------------|-------------|------------|------------|
| $Qcmax (\Delta T = 0)$ | 70.5 Watts | 77.3 Watts | 80.7 Watts |
| ΔTmax (Qc = 0) | 77.9°C | 89.3°C | 96.2°C |
| lmax (I @ ΔTmax) | 7.8 Amps | 7.6 Amps | 7.5 Amps |
| Vmax (V @ ΔTmax) | 15.3 Volts | 17.5 Volts | 19.1 Volts |
| Module Resistance | 1.81 Ohms | 2.10 Ohms | 2.30 Ohms |
| Max Operating Temperature | 150 °C | | |
| Weight | 7.0 gram(s) | | |

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

| Suffix | Thickness | Flatness / Parallelism | Hot Face | Cold Face | Lead Length |
|--------|--------------------------------------|--|----------|-----------|--------------------|
| 11 | 1.956 ±0.051 mm 0.077 ± 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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