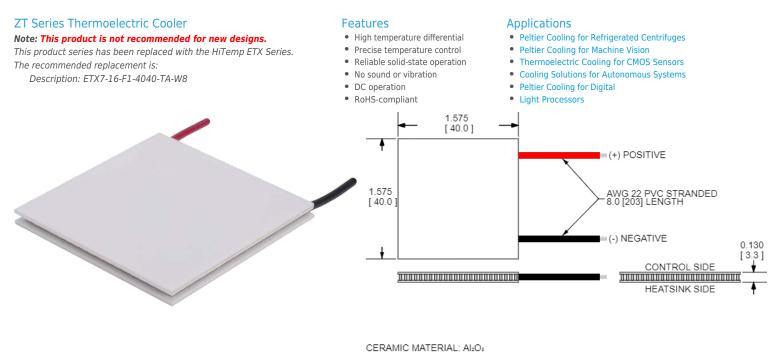


# ZT Series ZT7-16-F1-4040-TA-W8 MFG Part Number: 7945001-601 Legacy Product

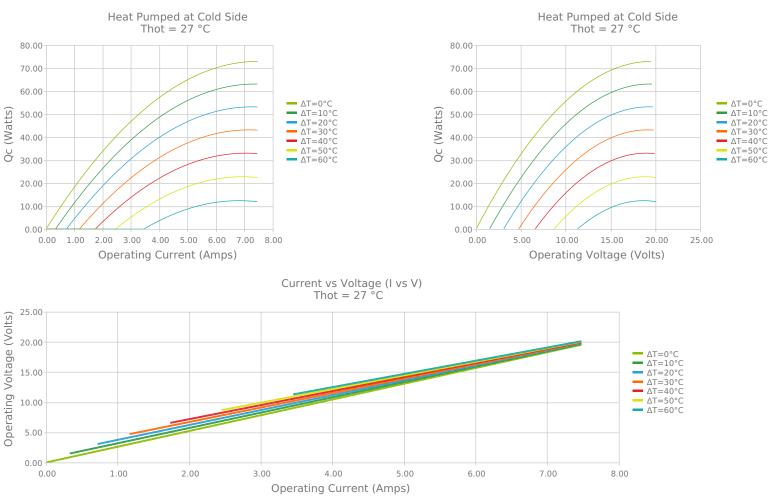


SOLDER CONSTRUCTION: 138°C, BiSn

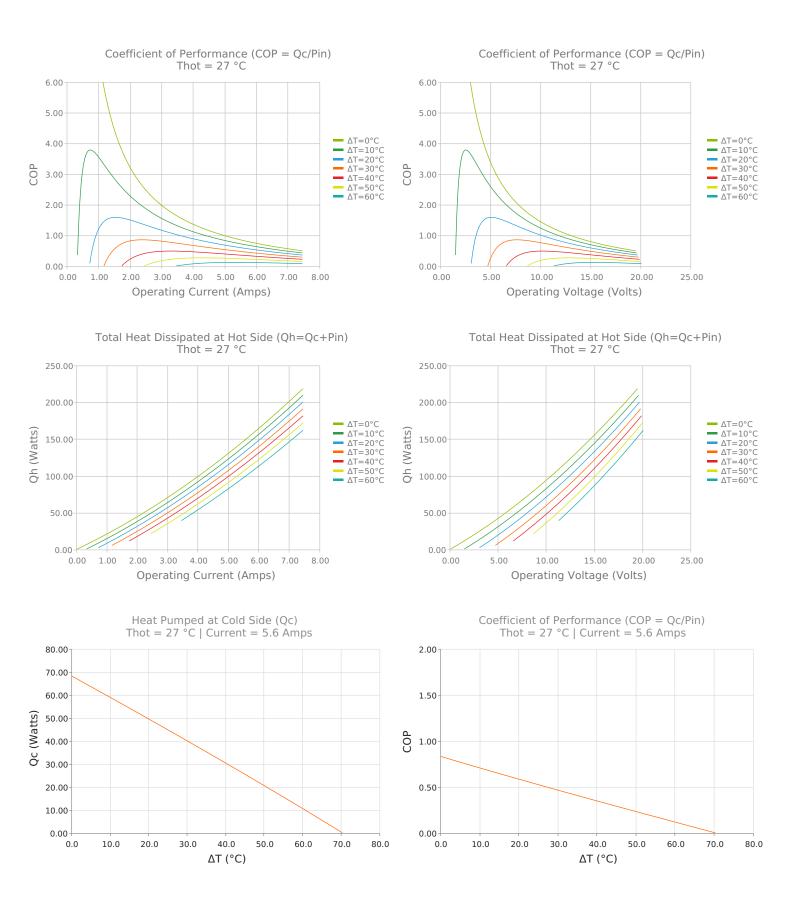
INCHES [ MM ]

#### **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      | 27.0 °C      | 35.0 °C    | 50.0 °C    |
|---------------------------|--------------|------------|------------|
| $Qcmax (\Delta T = 0)$    | 72.9 Watts   | 74.9 Watts | 78.4 Watts |
| ΔTmax (Qc = 0)            | 71.7°C       | 74.8°C     | 80.4°C     |
| lmax (I @ ΔTmax)          | 6.7 Amps     | 6.6 Amps   | 6.5 Amps   |
| Vmax (V @ ΔTmax)          | 18.5 Volts   | 19.2 Volts | 20.5 Volts |
| Module Resistance         | 2.61 Ohms    | 2.73 Ohms  | 2.94 Ohms  |
| Max Operating Temperature | 80 °C        |            |            |
| Weight                    | 19.0 gram(s) |            |            |

\* Specifications reflect thermoelectric coefficients updated March 2020

### **FINISHING OPTIONS**

| Suffix | Thickness                            | Flatness / Parallelism                     | Hot Face | Cold Face | Lead Length         |  |
|--------|--------------------------------------|--|----------|-----------|---------------------|--|
| ТА     | 3.300 ±0.025 mm<br>0.130 ± 0.0010 in | 0.025 mm / 0.025 mm<br>0.001 in / 0.001 in | Lapped   | Lapped    | 203.2 mm<br>8.00 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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