

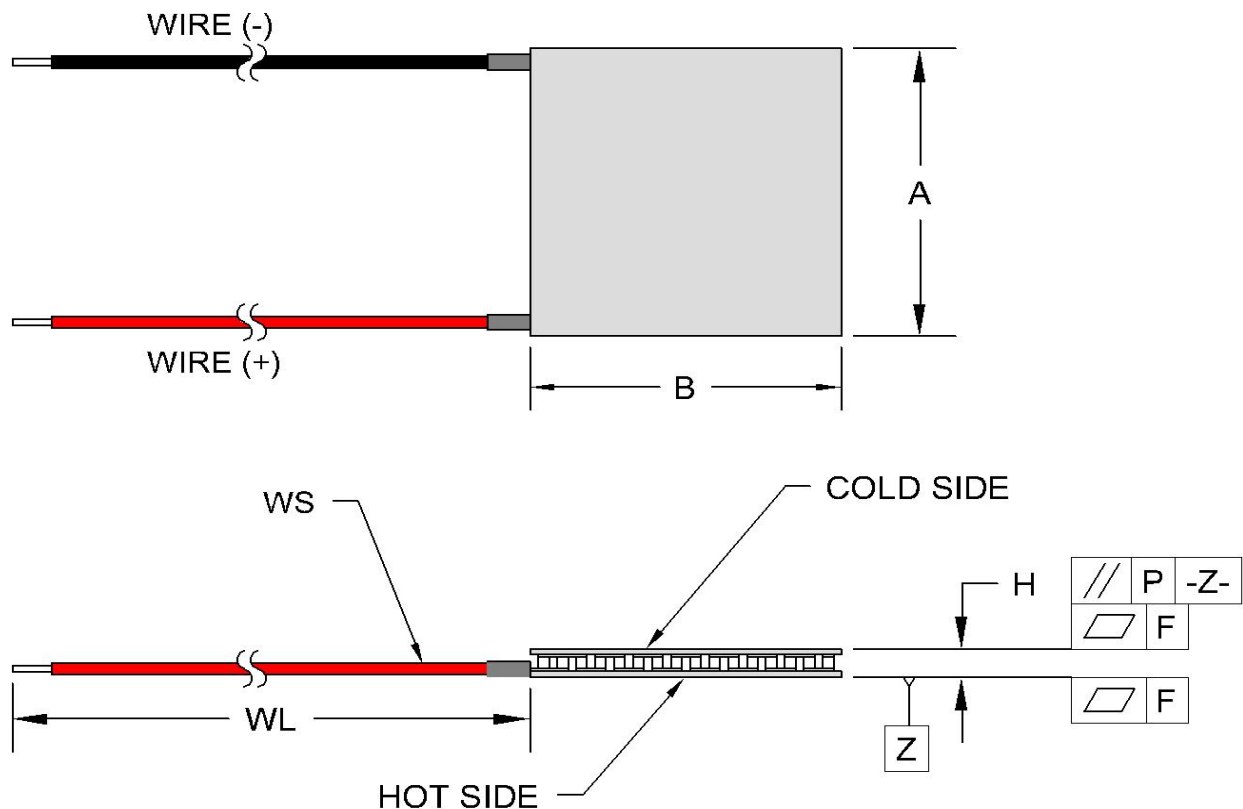
**TE-127-1.0-0.8  
Thermoelectric Module  
(Peltier Module)  
Specifications**

|                                  | Material<br>Specifications<br>(27 °C hot side<br>temperature) | Material<br>Specifications<br>(50 °C hot side<br>temperature) |
|----------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Vmax (V)                         | 15.7                                                          | 17.4                                                          |
| I <sub>max</sub> (A)             | 5.8                                                           | 5.8                                                           |
| Q <sub>max</sub> (W)             | 56.0                                                          | 61.4                                                          |
| DT <sub>max</sub> (°C)           | 69                                                            | 78                                                            |
| Operation/storage<br>temperature | -40 °C to +80 °C                                              |                                                               |

Module *material* specifications are nominal values based on the hot-side temperature indicated. Thermoelectric material parameter tolerance is +/-10%.

In no case should the module temperature be allowed to exceed its maximum operation/storage temperature.

Please review all product and technical information, *Thermoelectric Module Mounting Procedure*, parameter definitions, FAQ's, and ordering information posted on our website before purchasing or using this product.



|                                  |              |
|----------------------------------|--------------|
| Width, A (mm)                    | 30 +0.5/-0.2 |
| Width, B (mm)                    | 30 +0.5/-0.2 |
| Height, H (mm)                   | 3.1 ±0.05    |
| Flatness, F (mm)                 | 0.02         |
| Parallelism, P (mm)              | 0.03         |
| Wire Size, WS (mm <sup>2</sup> ) | 0.34         |
| Wire Length, WL (mm)             | 120          |

**Optional Features and Notes:**

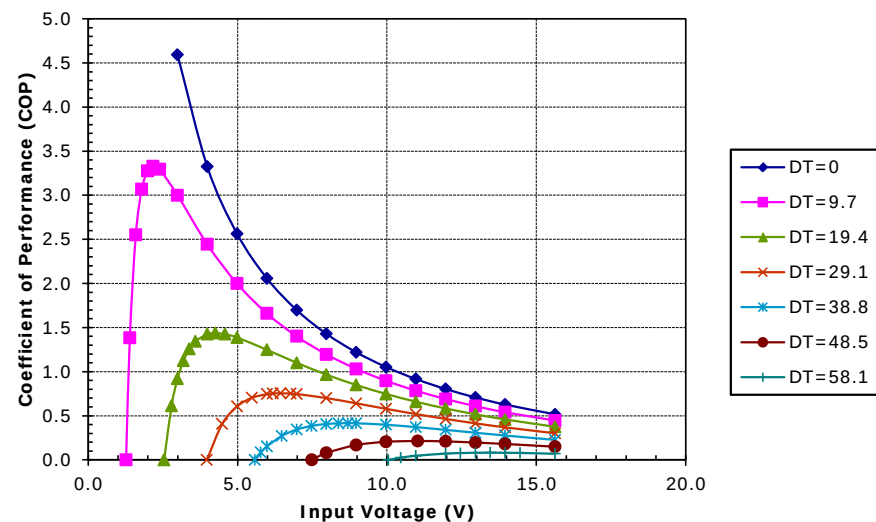
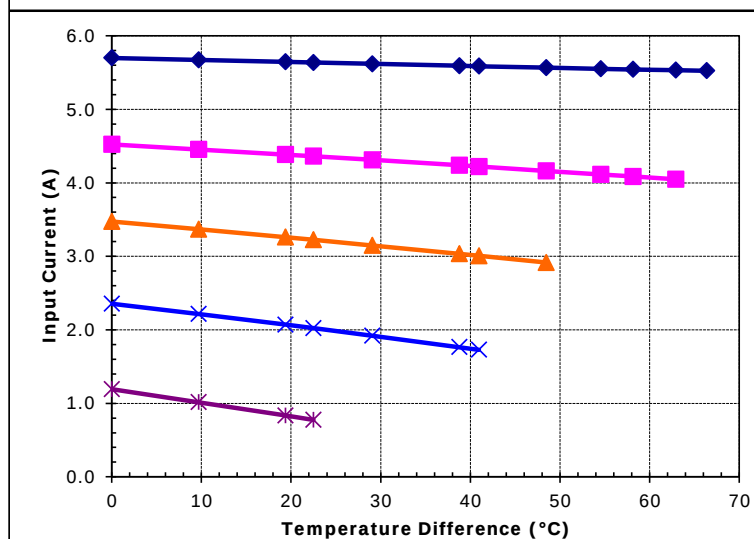
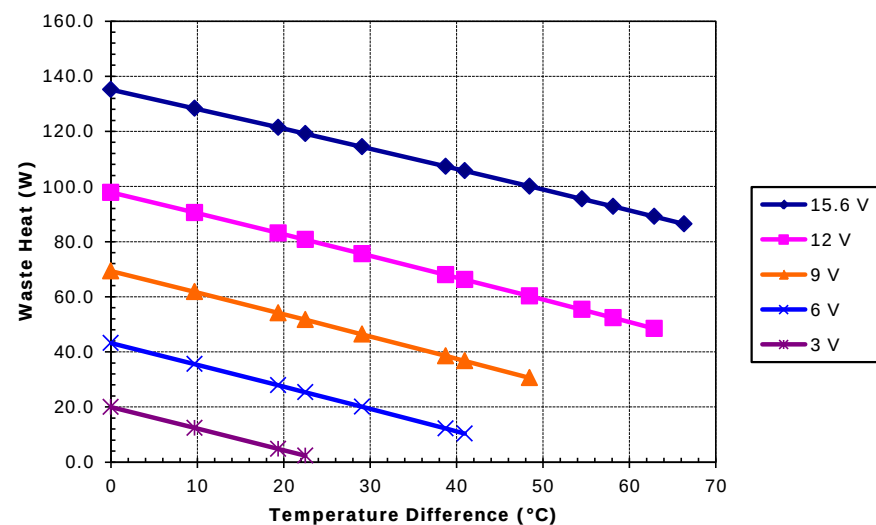
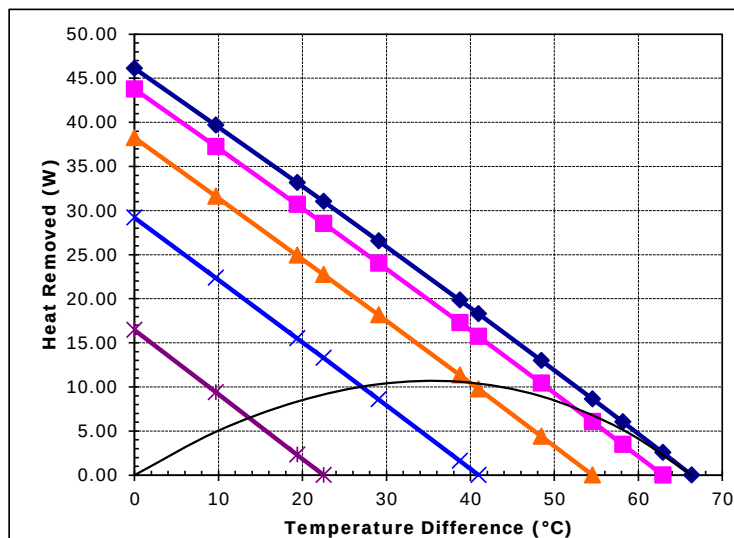
Add "P" to part number for sealing module with epoxy potting.

Performance graphs include thermal resistance of substrates.

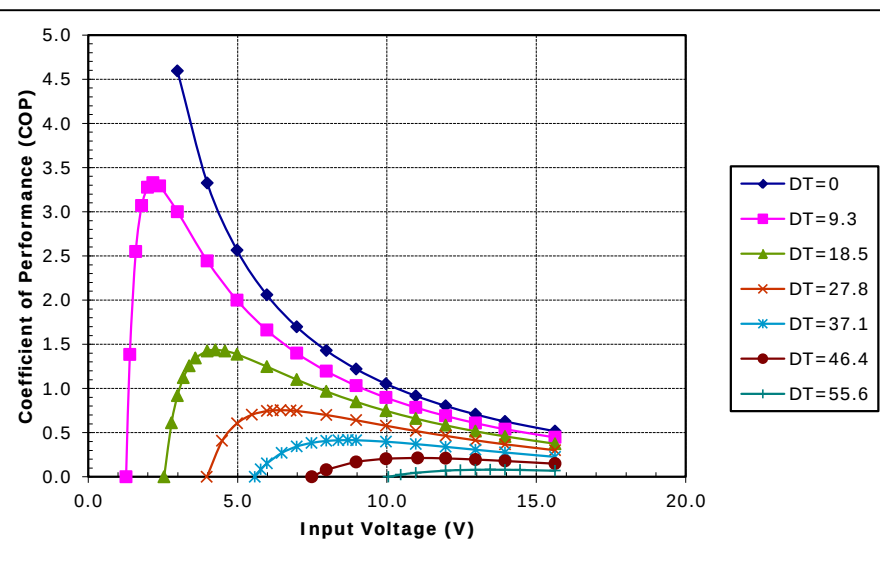
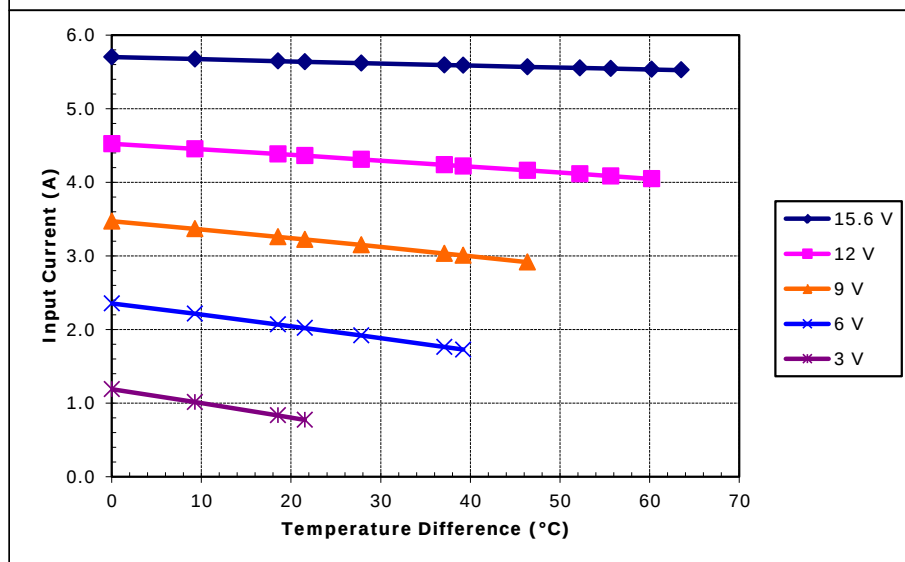
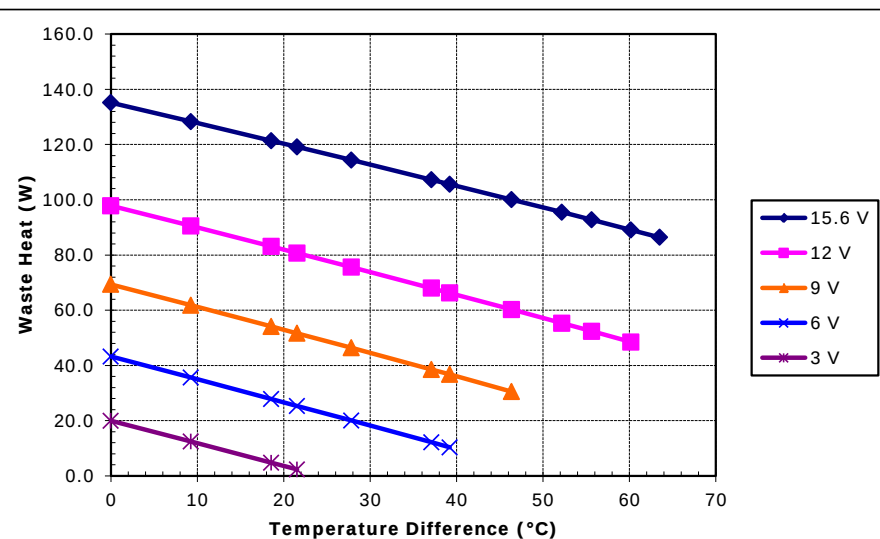
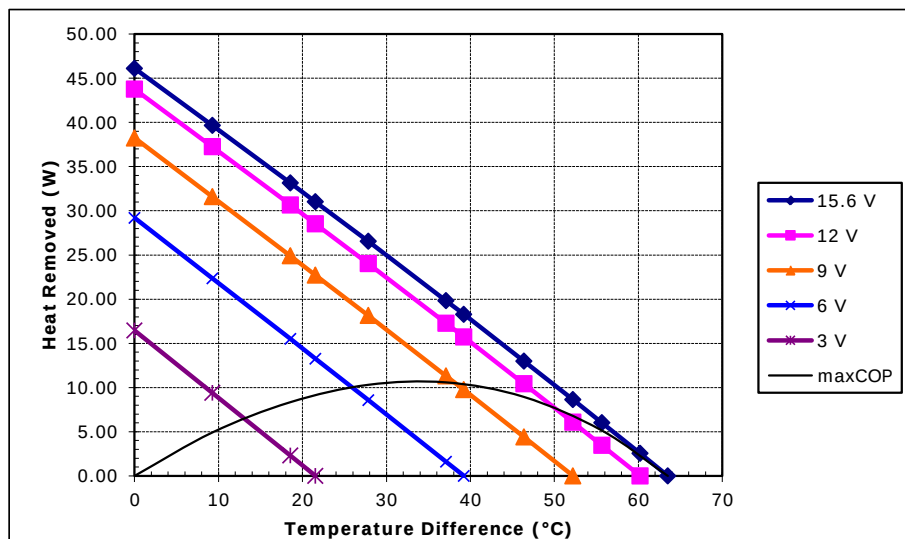
RoHS Compliant

**TE** TECHNOLOGY, INC.®

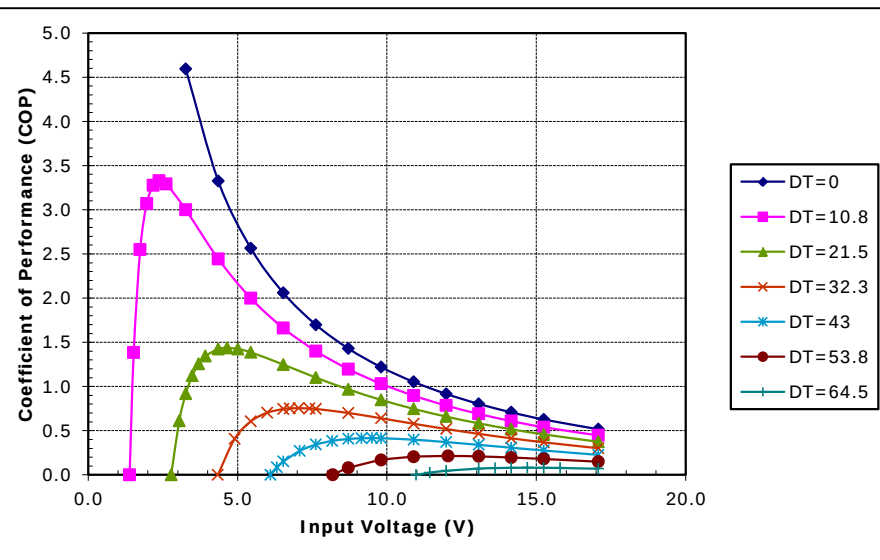
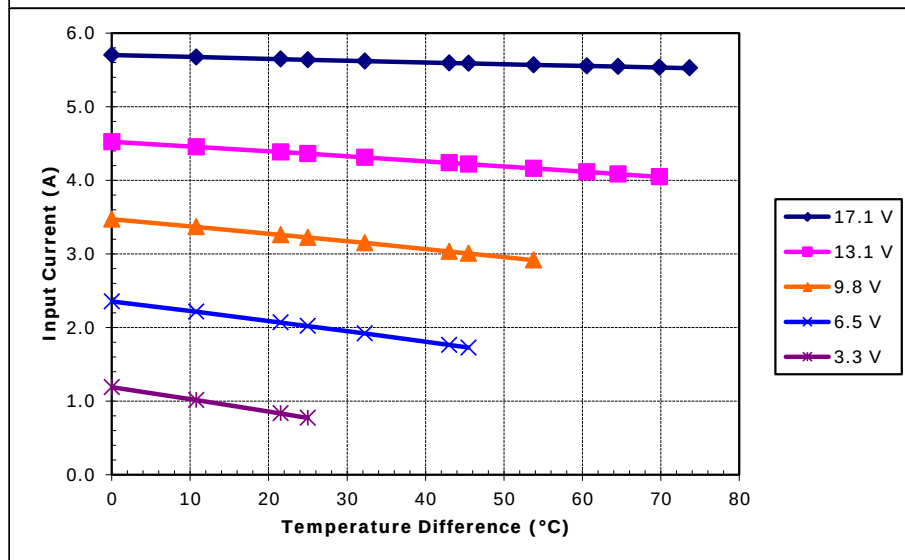
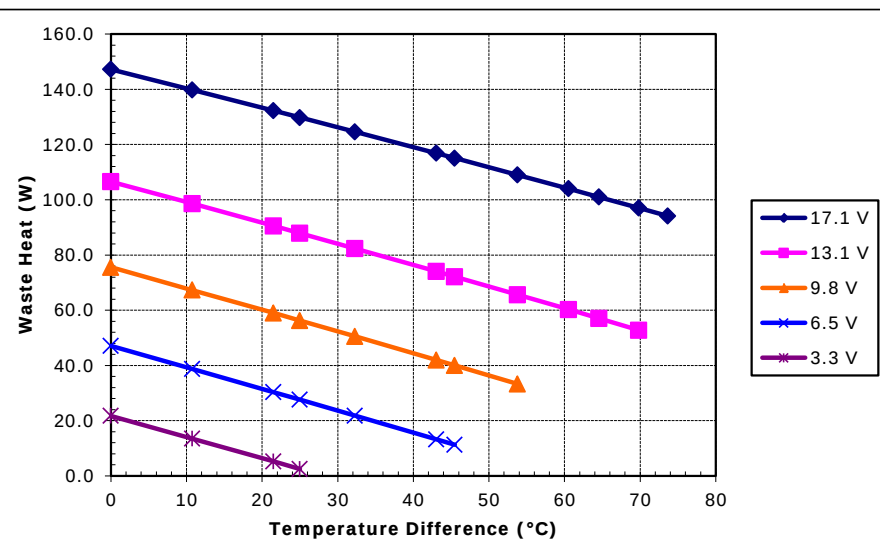
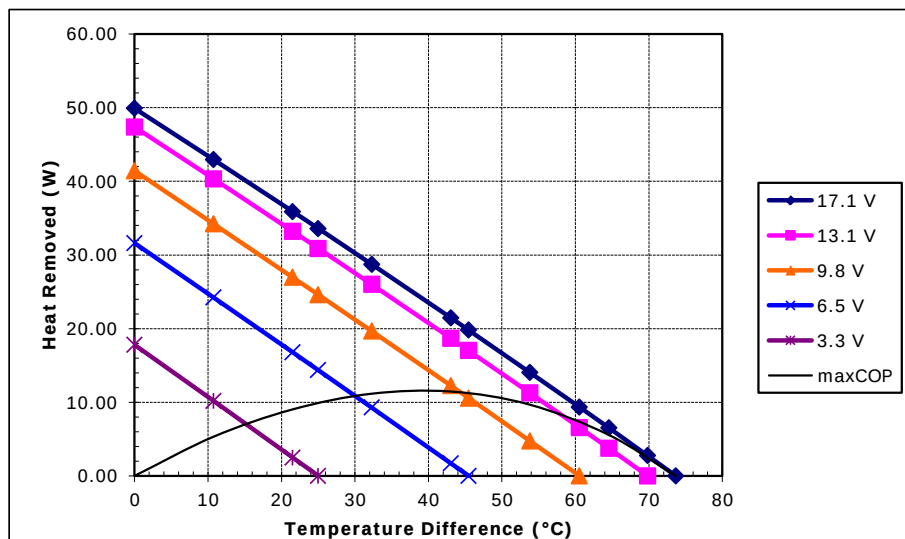
1590 Keane Drive, Traverse City, MI, 49696-8257 USA  
PH: 231-929-3966 FAX: 231-929-4163 email: cool@totech.com



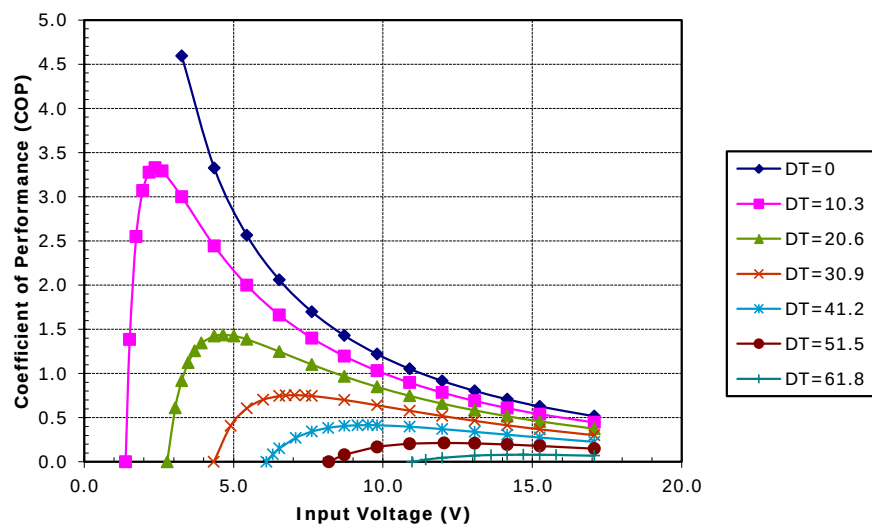
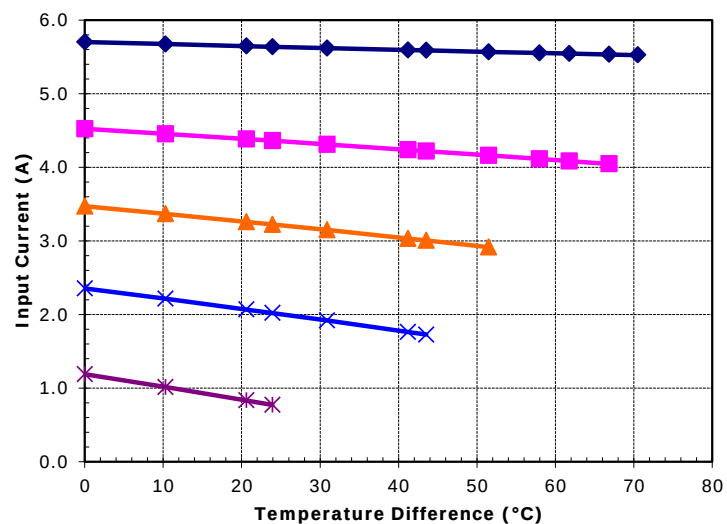
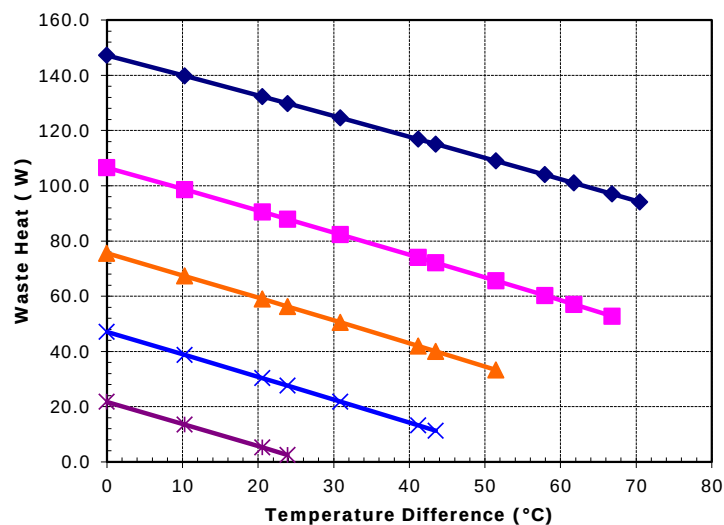
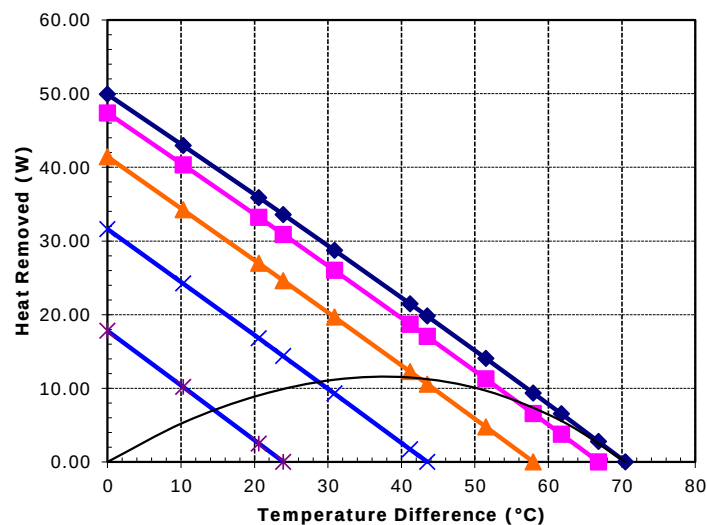
Unpotted TE-127-1.0-0.8 at a hot-side temperature of 30 °C



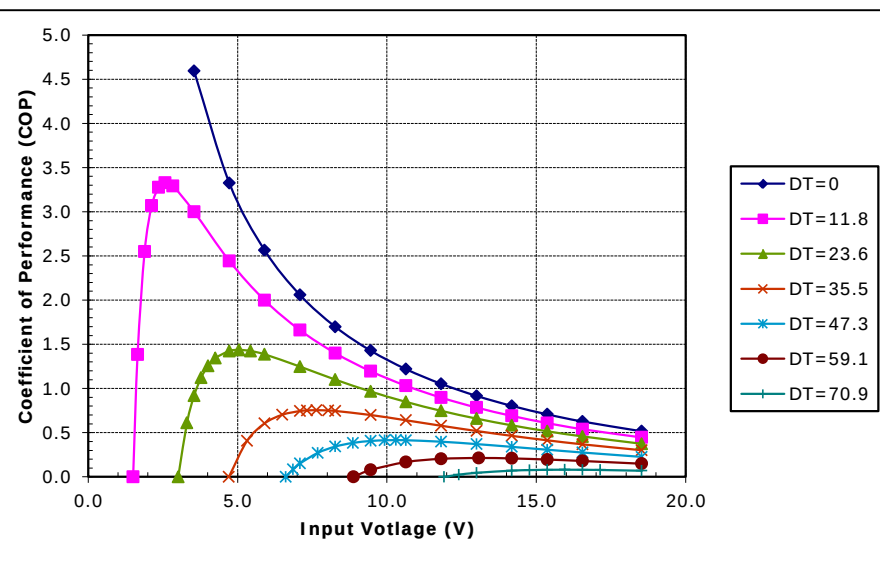
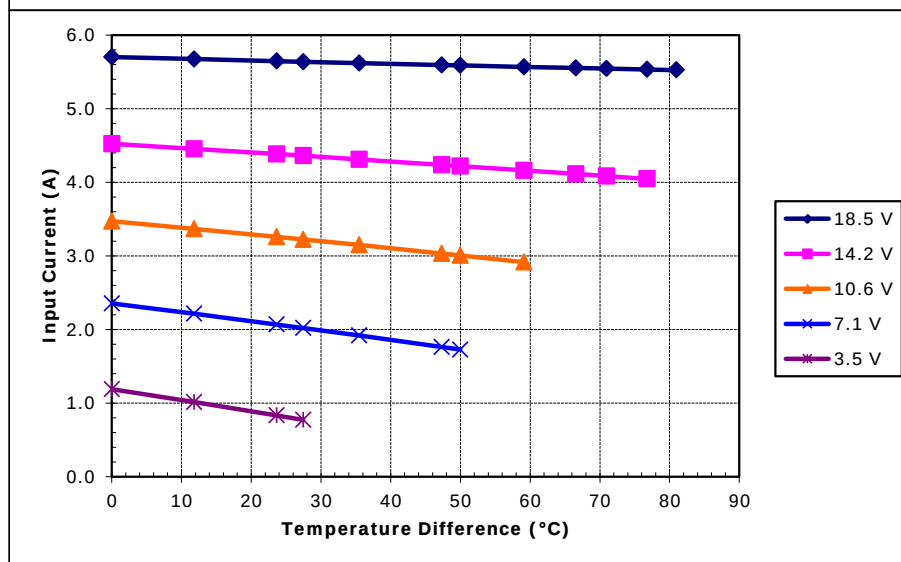
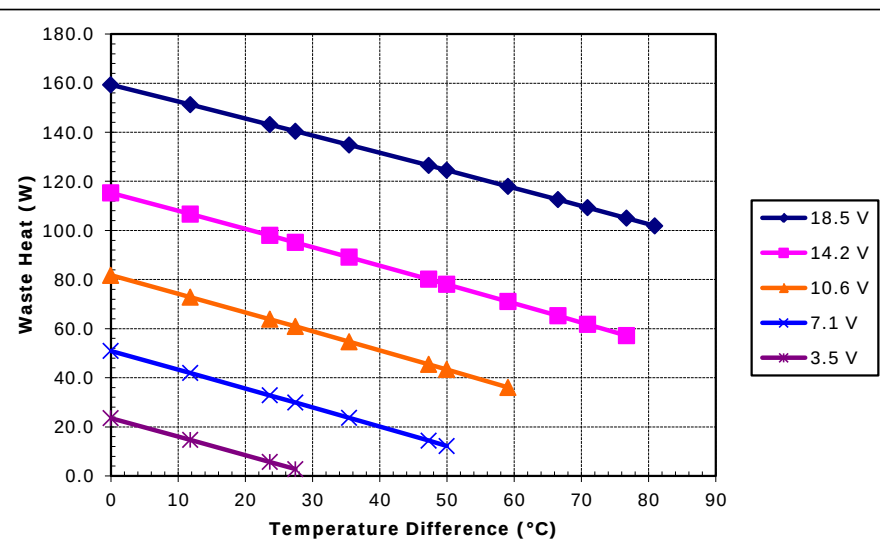
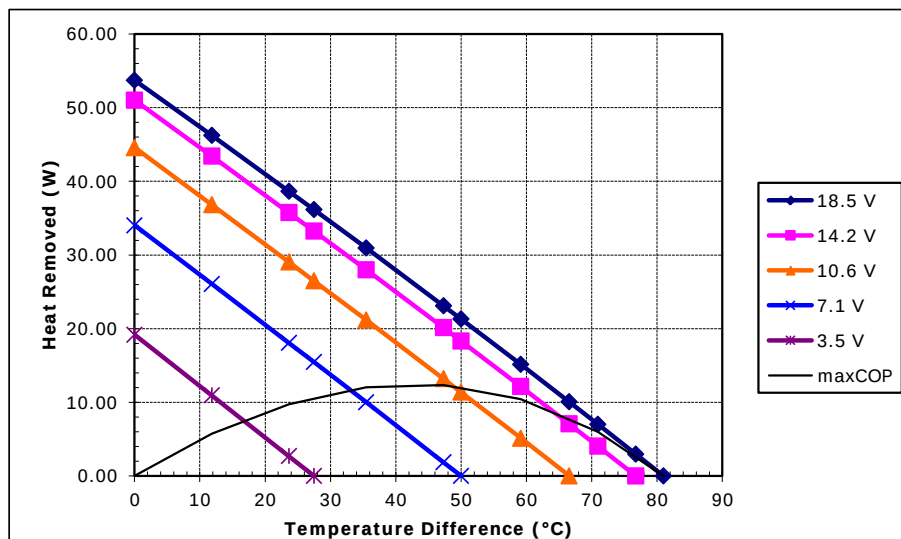
Potted TE-127-1.0-0.8 at a hot-side temperature of 30 °C



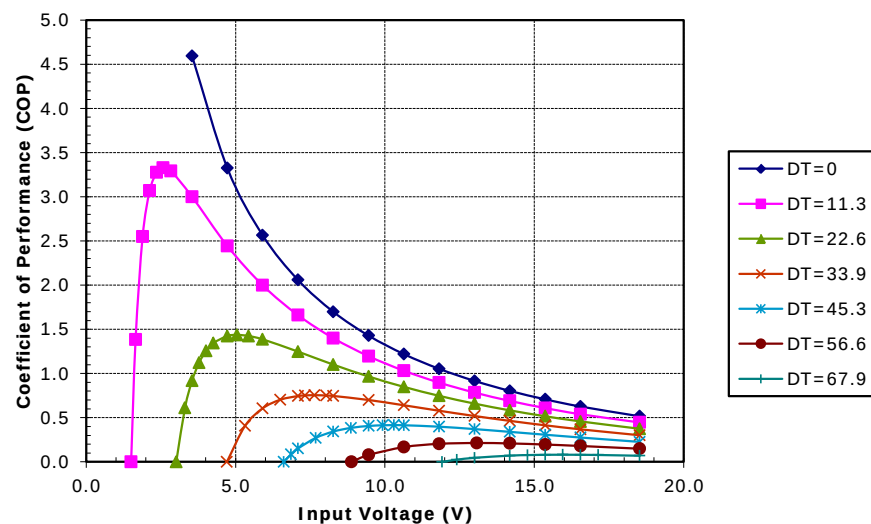
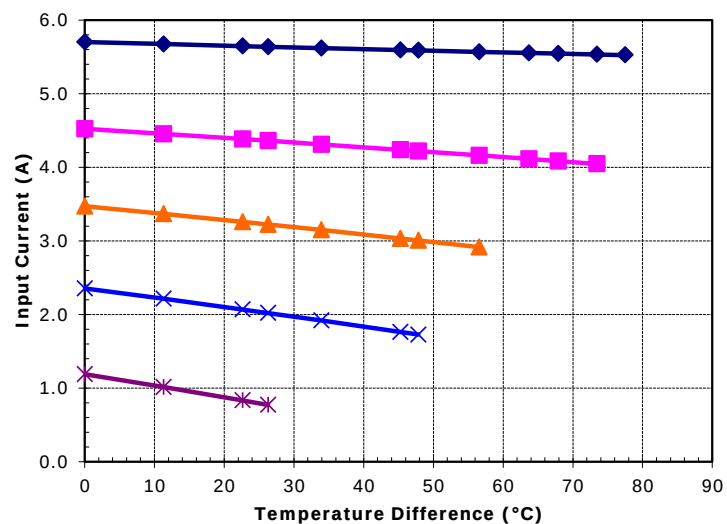
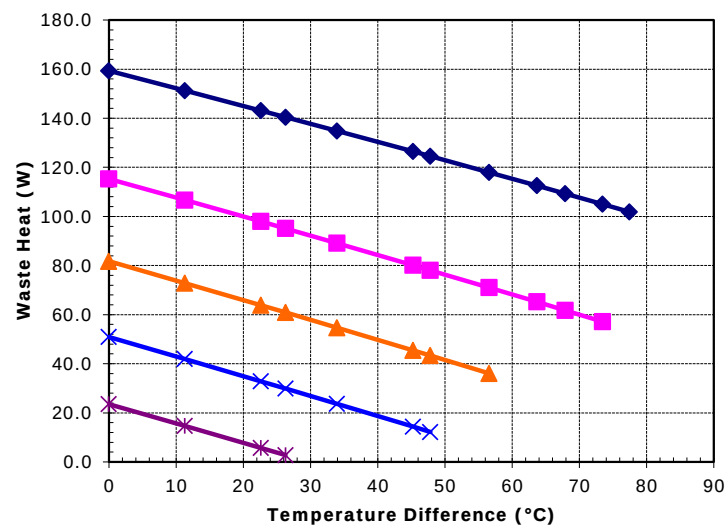
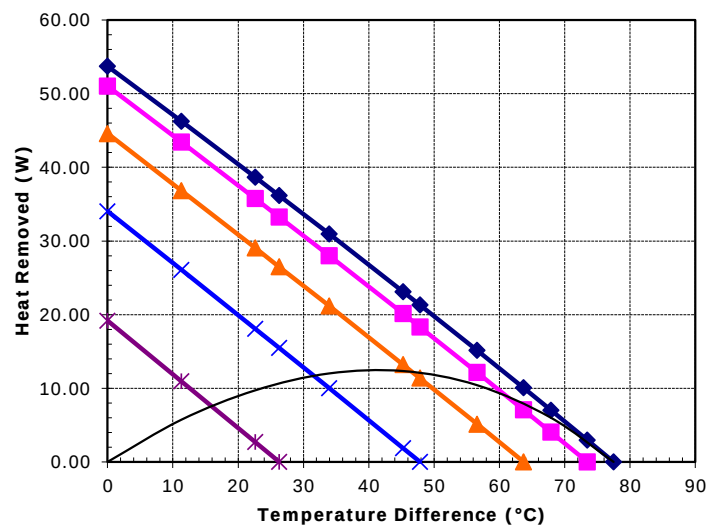
Unpotted TE-127-1.0-0.8 at a hot-side temperature of 50 °C



Potted TE-127-1.0-0.8 at a hot-side temperature of 50 °C



Unpotted TE-127-1.0-0.8 at a hot-side temperature of 70 °C



Potted TE-127-1.0-0.8 at a hot-side temperature of 70 °C