

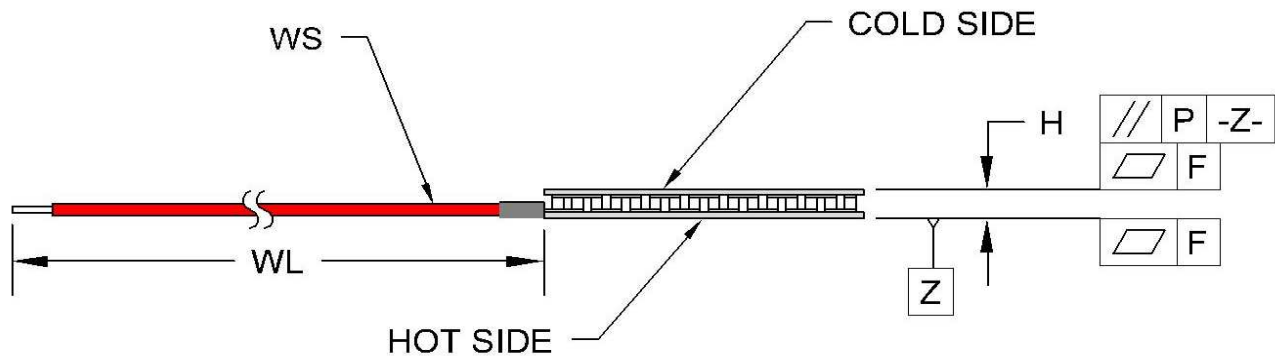
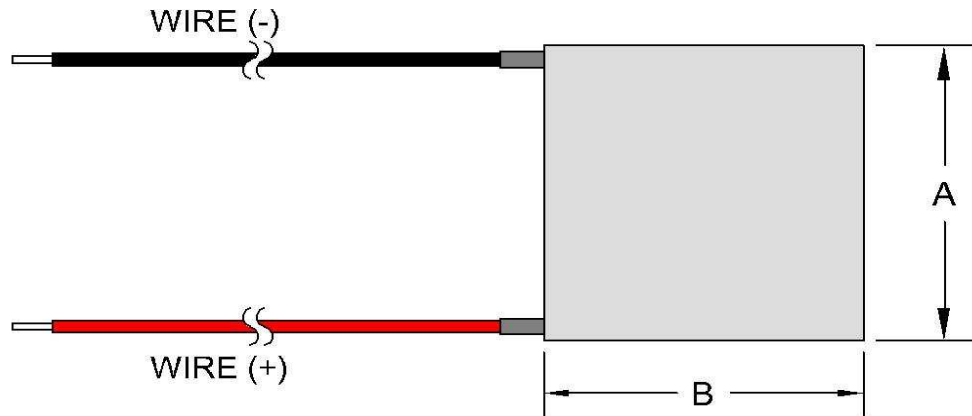
**HP-199-1.4-0.8  
Thermoelectric Module  
(Peltier Module)  
Specifications**

	Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)
Vmax (V)	24.6	27.3
I <sub>max</sub> (A)	11.3	11.3
Q <sub>max</sub> (W)	172.0	188.7
DT <sub>max</sub> (°C)	69	78
Operation/storage 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)	40 +0.5/-0.2
Width, B (mm)	40 +0.5/-0.2
Height, H (mm)	3.2 ±0.05
Flatness, F (mm)	0.02
Parallelism, P (mm)	0.03
Wire Size, WS (mm <sup>2</sup> )	0.5
Wire Length, WL (mm)	120

**Optional Features and Notes:**

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

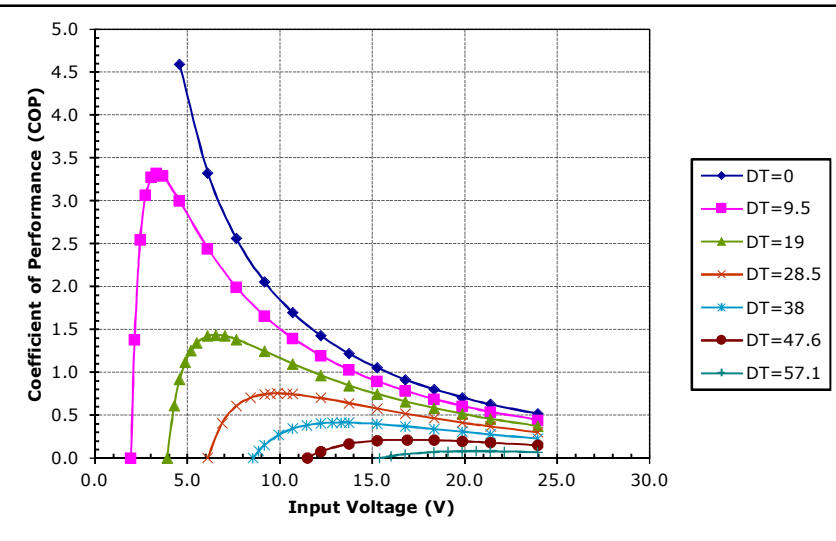
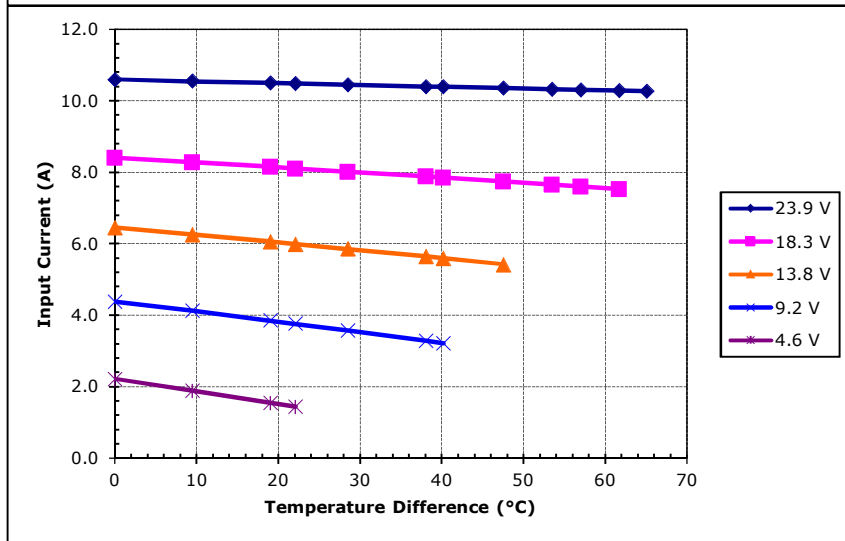
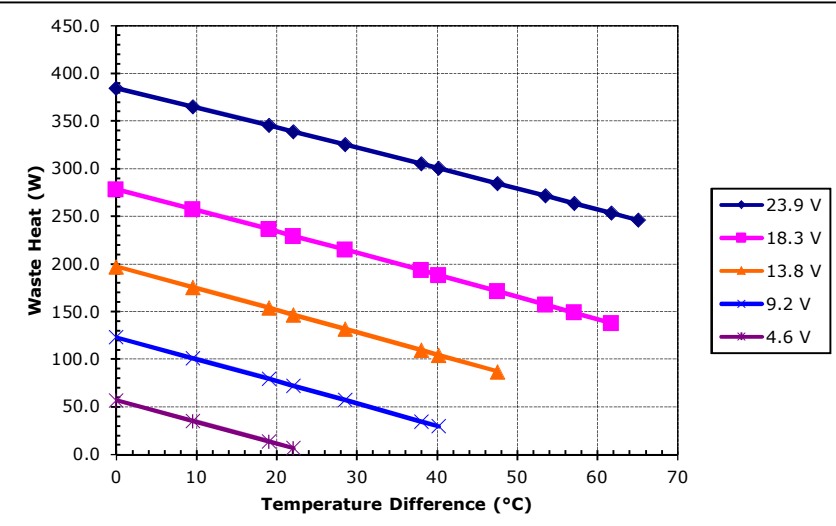
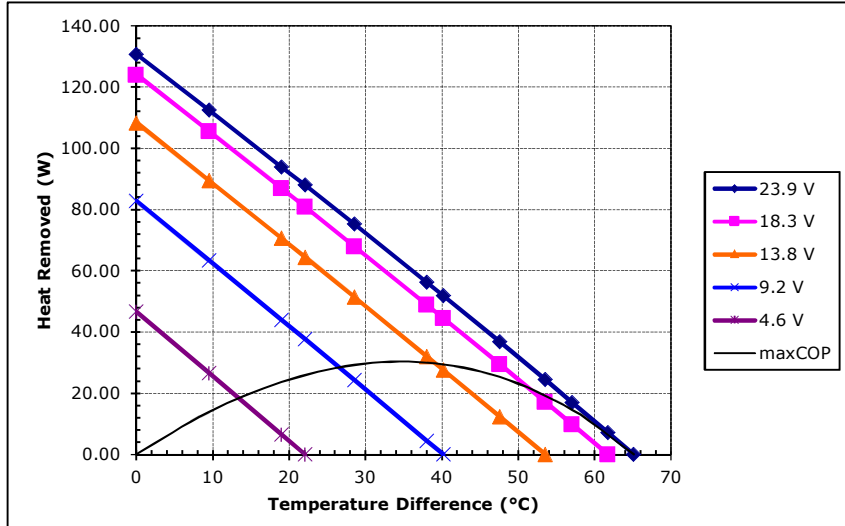
Performance graphs include thermal resistance of substrates.

RoHS Compliant

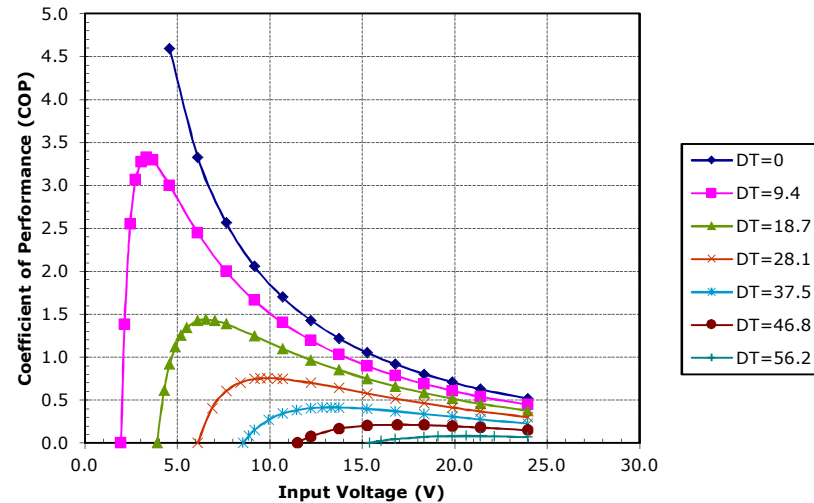
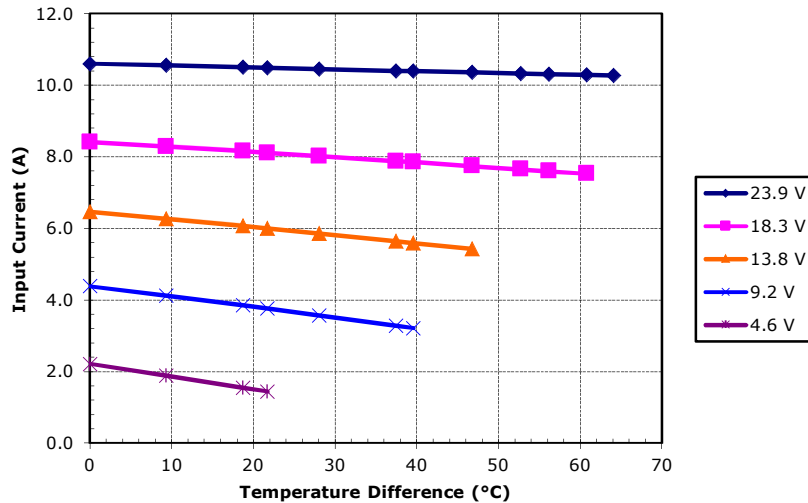
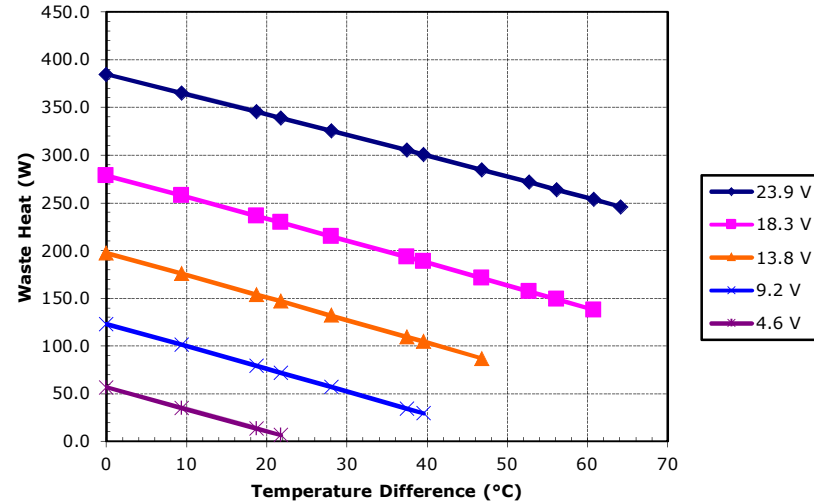
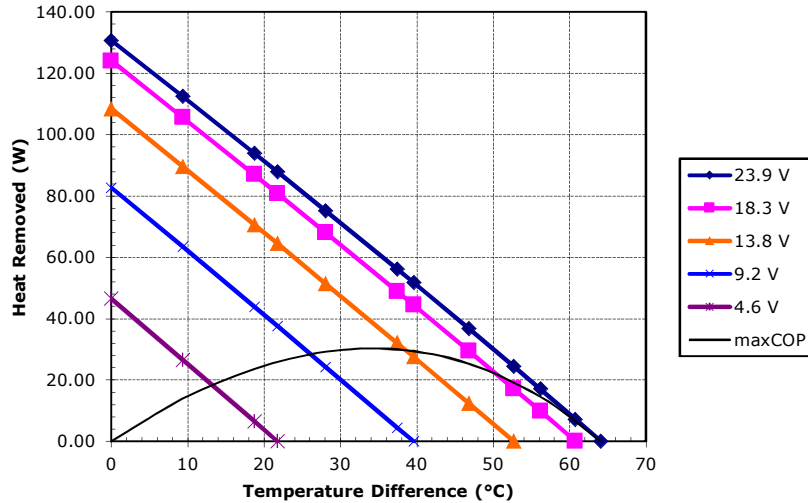
**TE** TECHNOLOGY, INC.®

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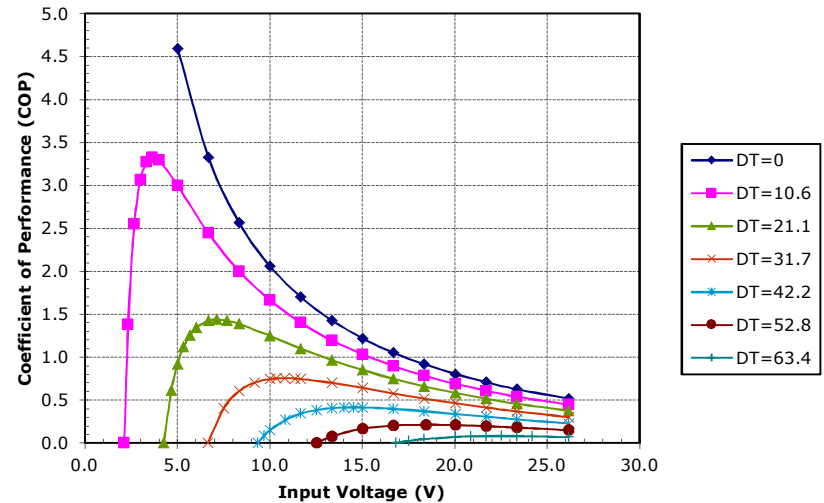
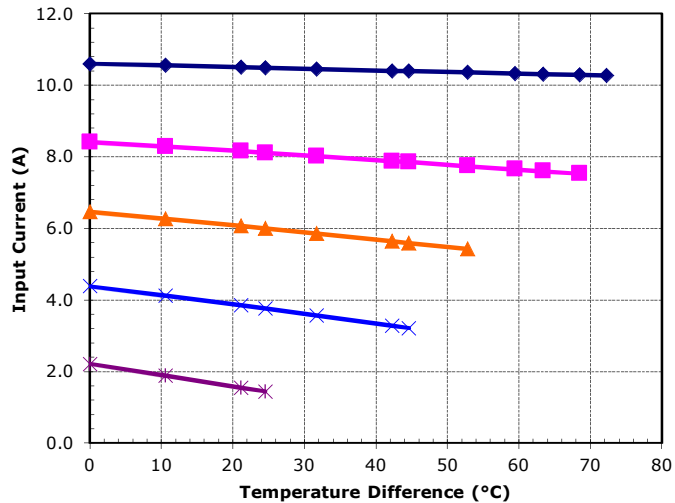
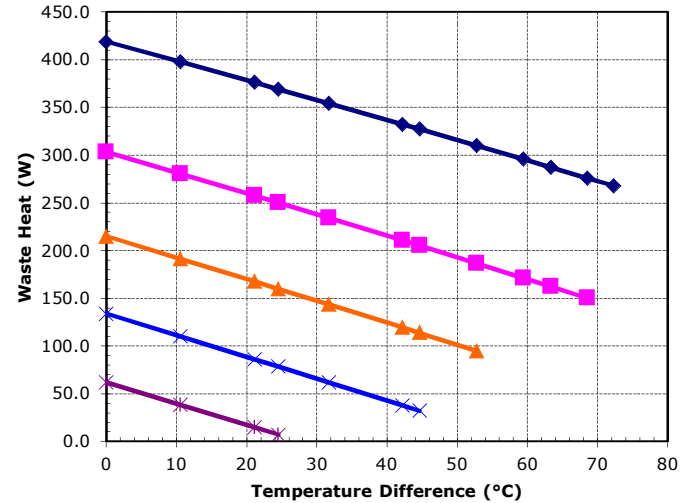
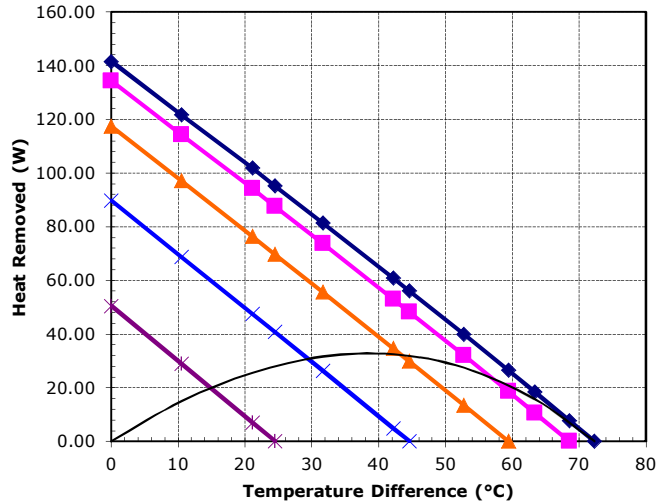
Expert Engineering, Precision Manufacturing: *Quality Thermal Solutions Delivered*



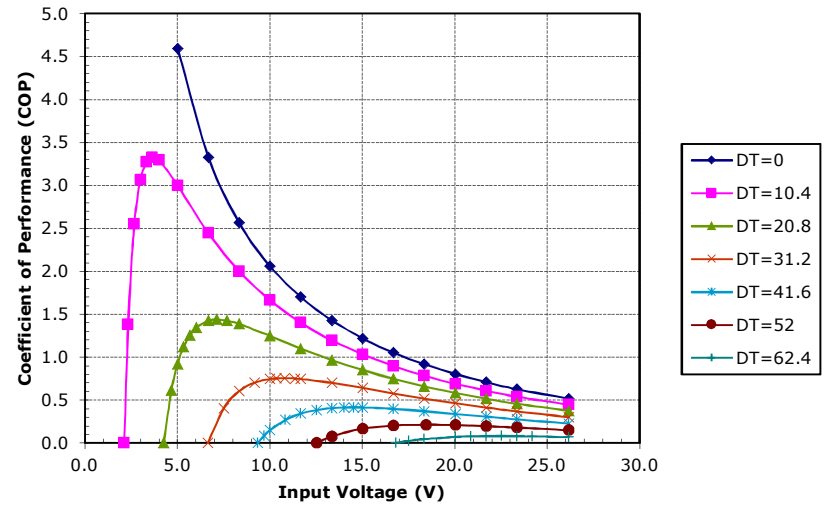
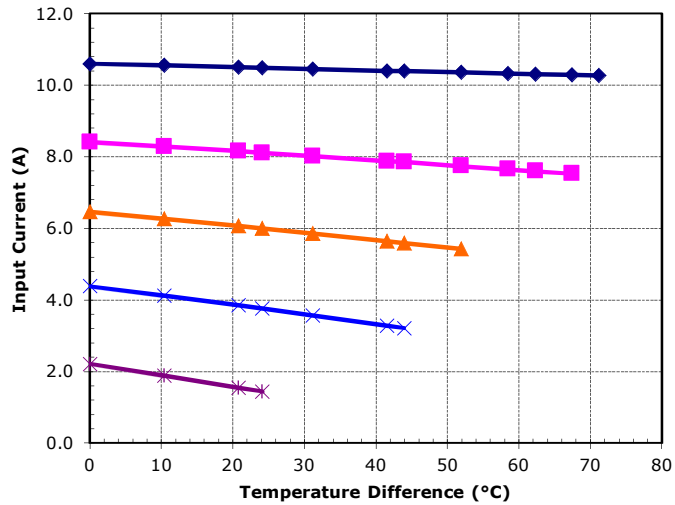
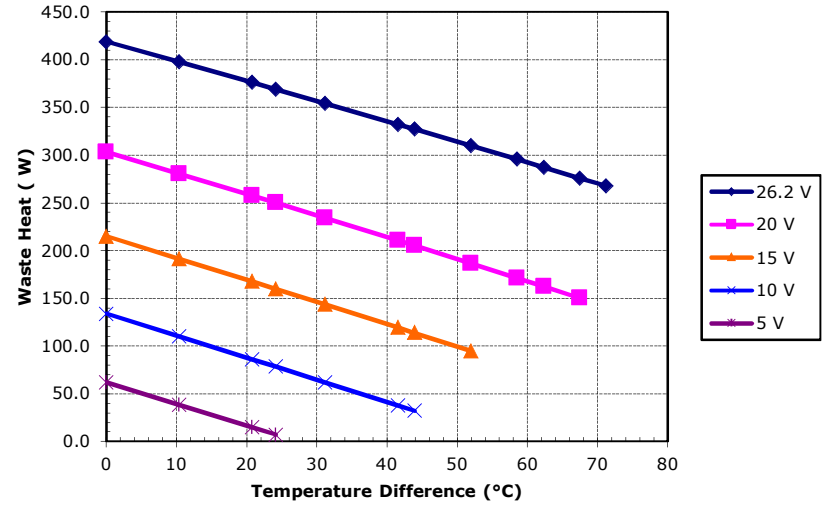
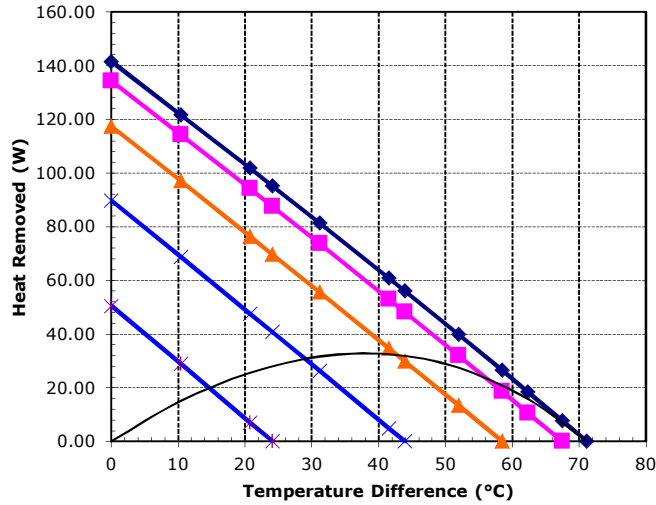
Unpotted HP-199-1.4-0.8 at a hot-side temperature of 30 °C



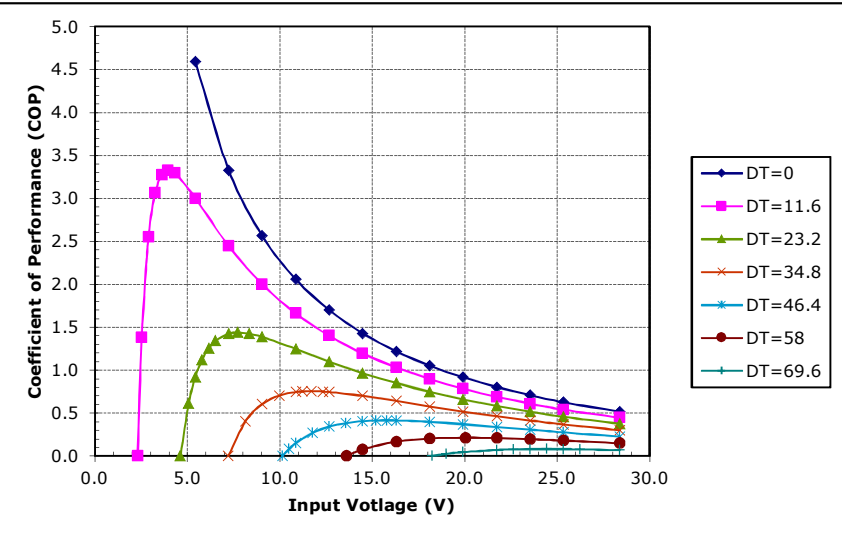
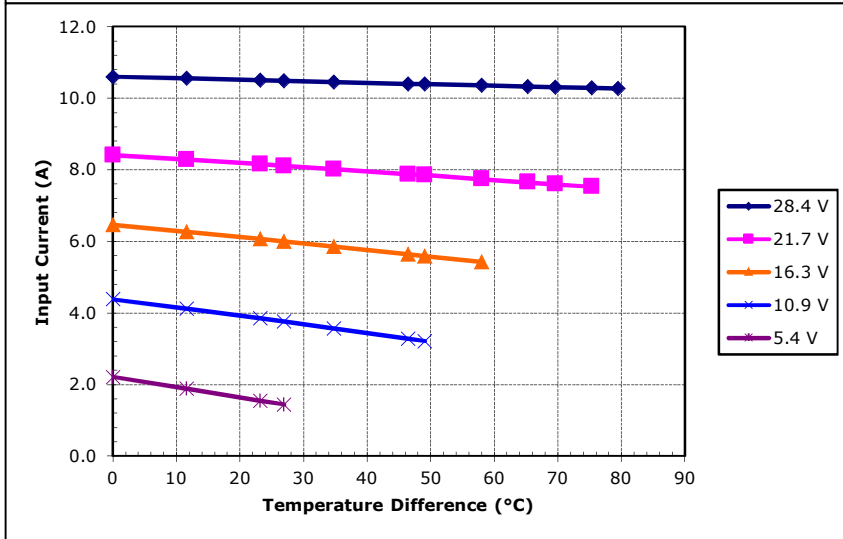
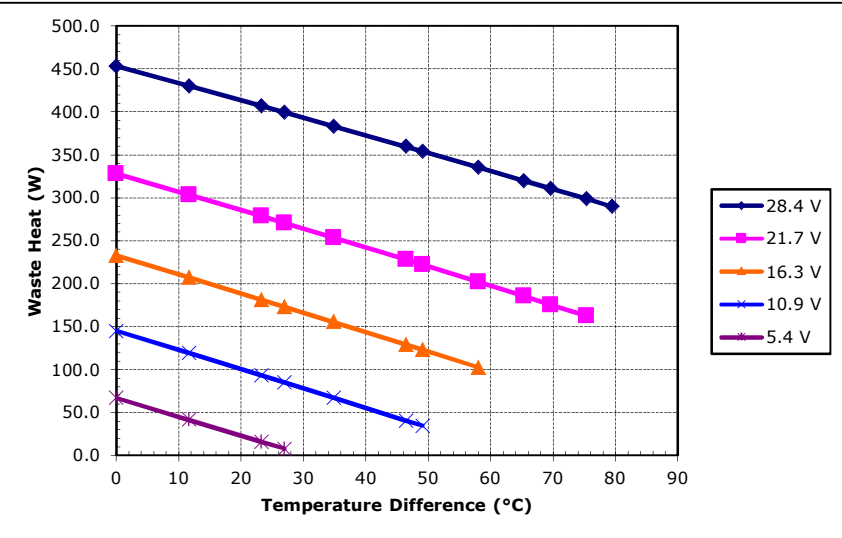
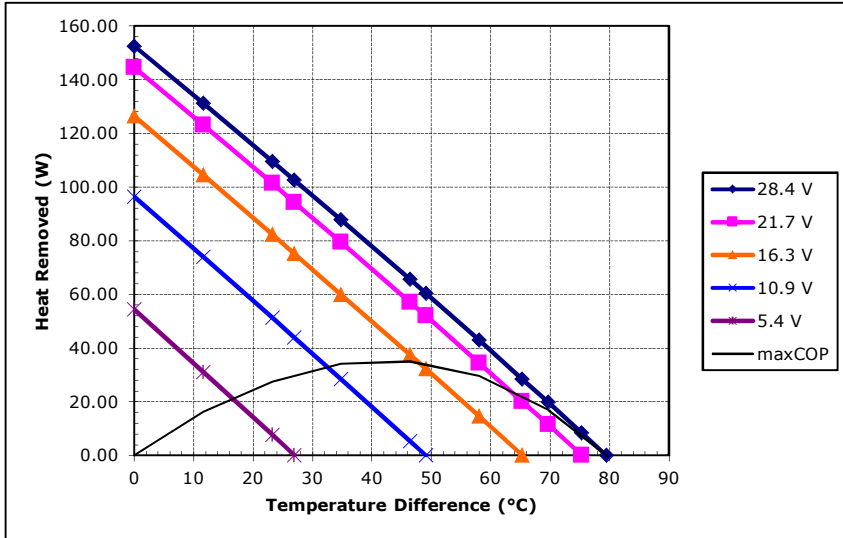
Potted HP-199-1.4-0.8 at a hot-side temperature of 30 °C



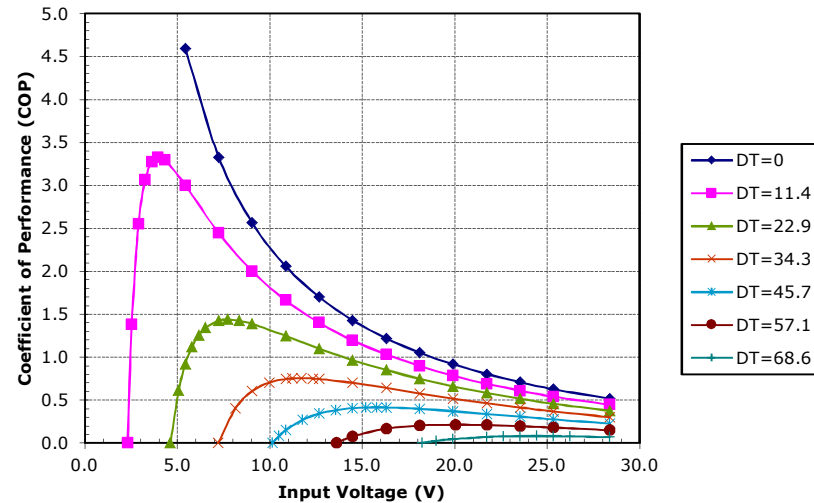
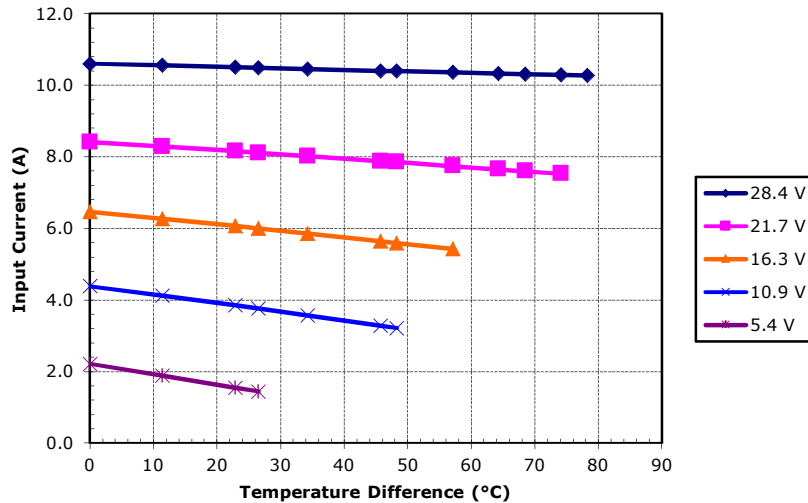
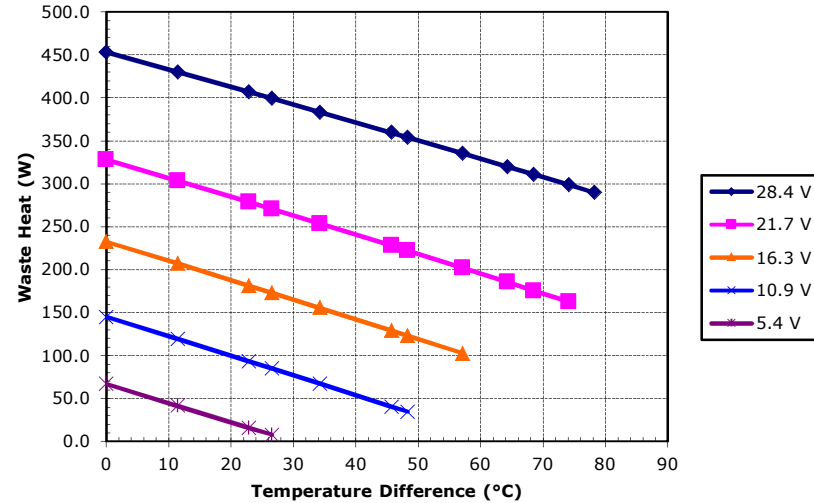
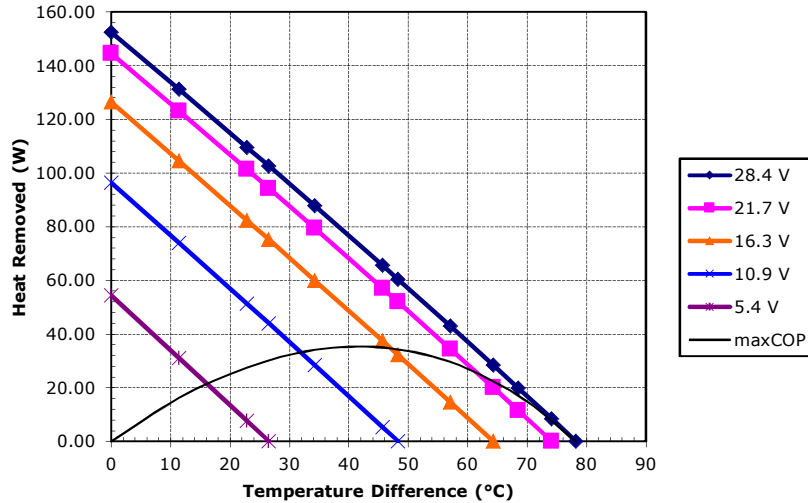
Unpotted HP-199-1.4-0.8 at a hot-side temperature of 50 °C



Potted HP-199-1.4-0.8 at a hot-side temperature of 50 °C



Unpotted HP-199-1.4-0.8 at a hot-side temperature of 70 °C



Potted HP-199-1.4-0.8 at a hot-side temperature of 70 °C