

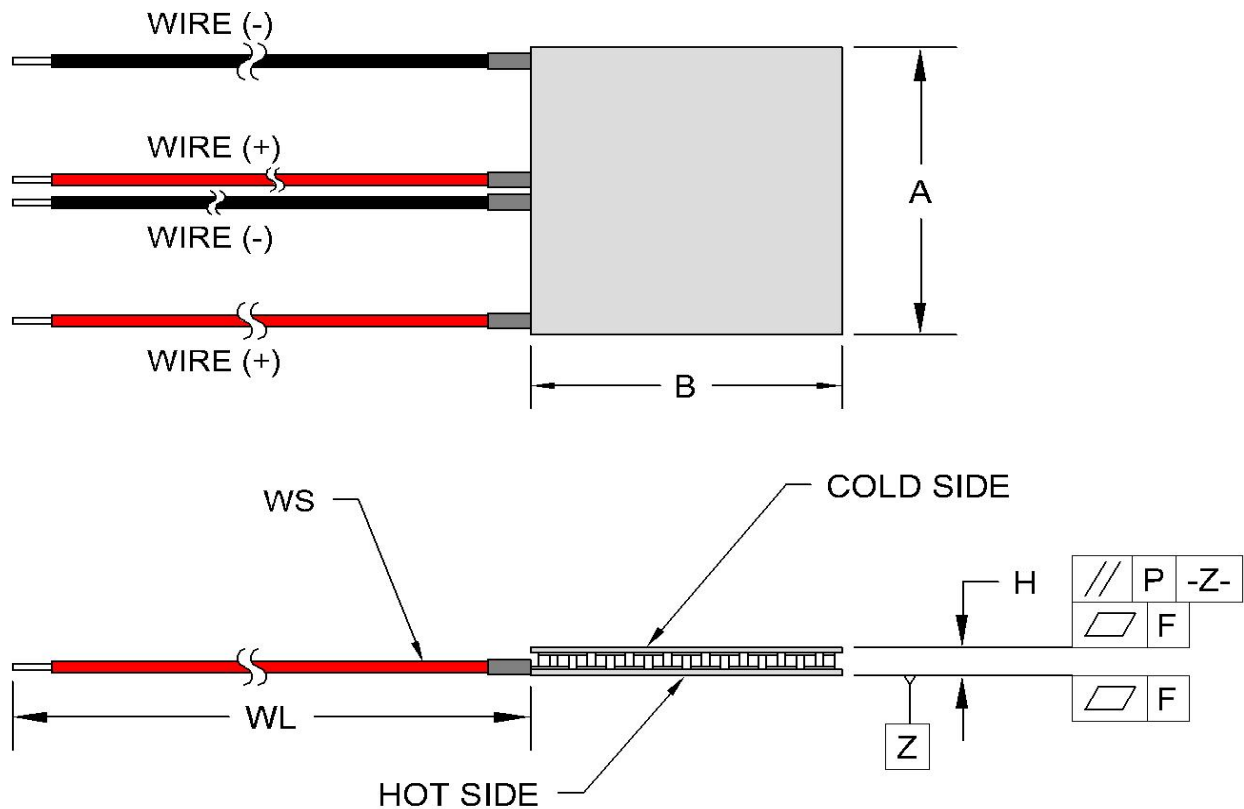
**SP-254-1.0-1.3 (Series)
Thermoelectric Module
(Peltier Module)
Specifications**

	Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)
Vmax (V)	31.4	34.8
I _{max} (A)	3.6	3.6
Q _{max} (W)	70.0	76.8
DT _{max} (°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)	3.6 ±0.05
Flatness, F (mm)	0.02
Parallelism, P (mm)	0.03
Wire Size, WS (mm ²)	0.34
Wire Length, WL (mm)	120

Optional Features and Notes:

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

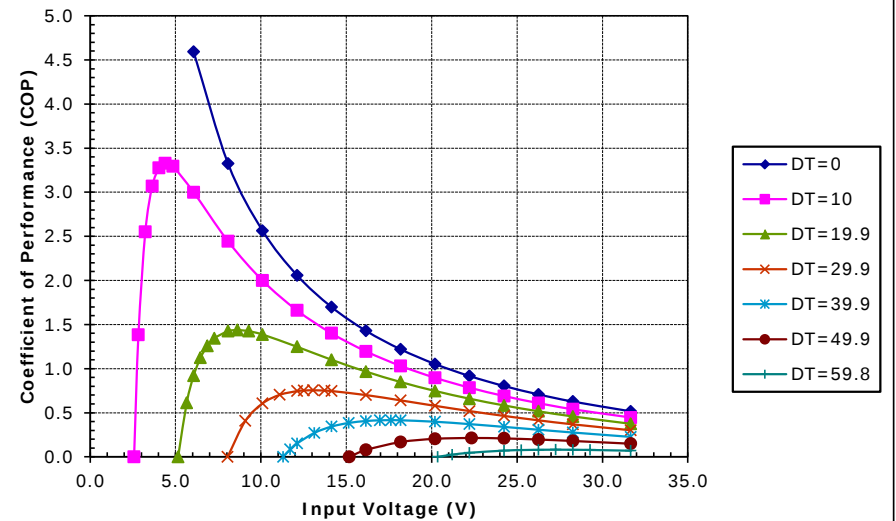
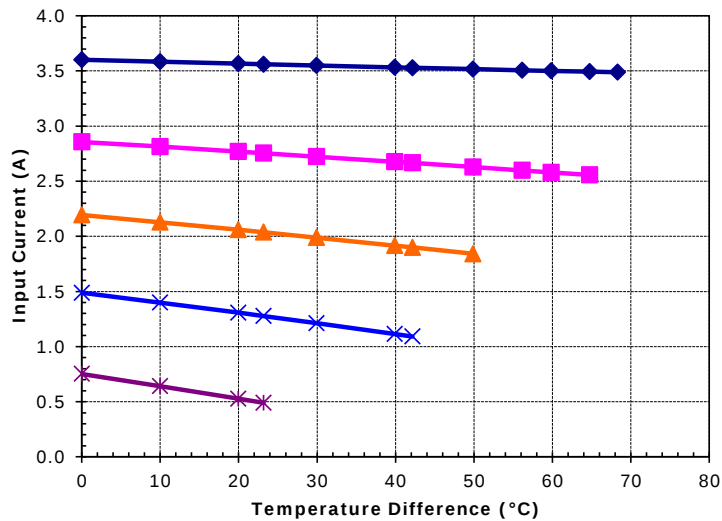
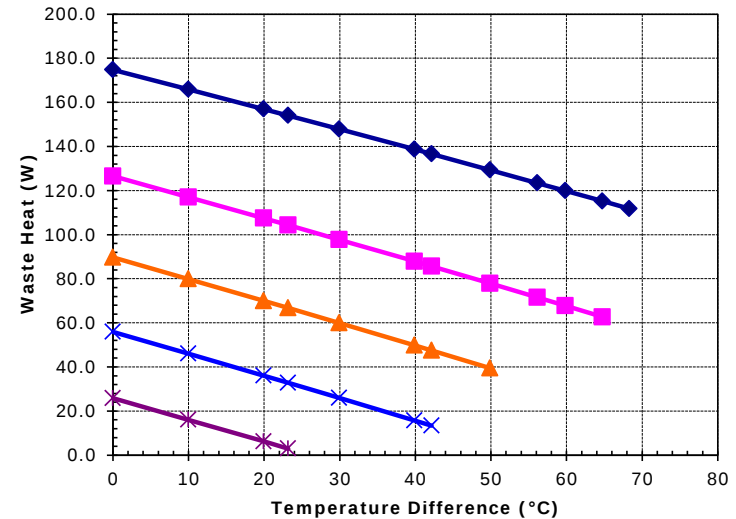
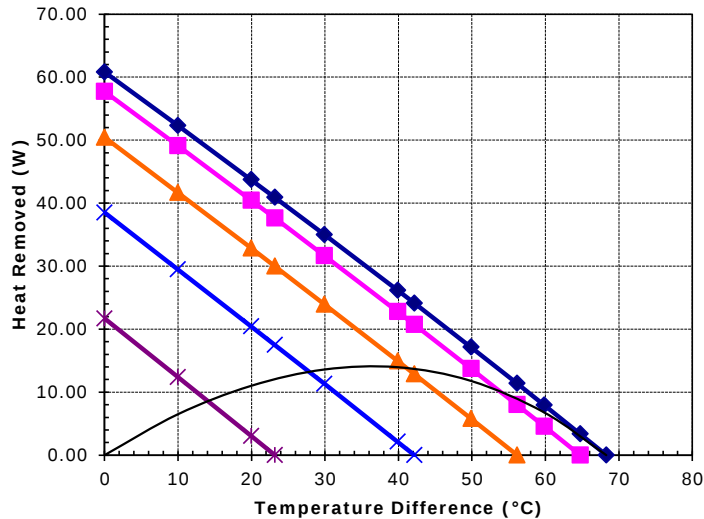
Module can be configured in parallel mode as well.

Performance graphs include thermal resistance of substrates.

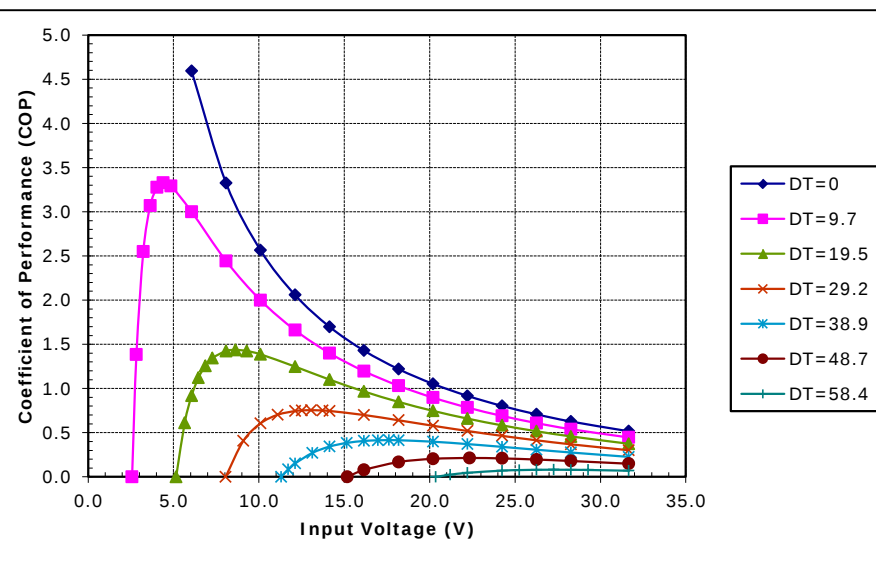
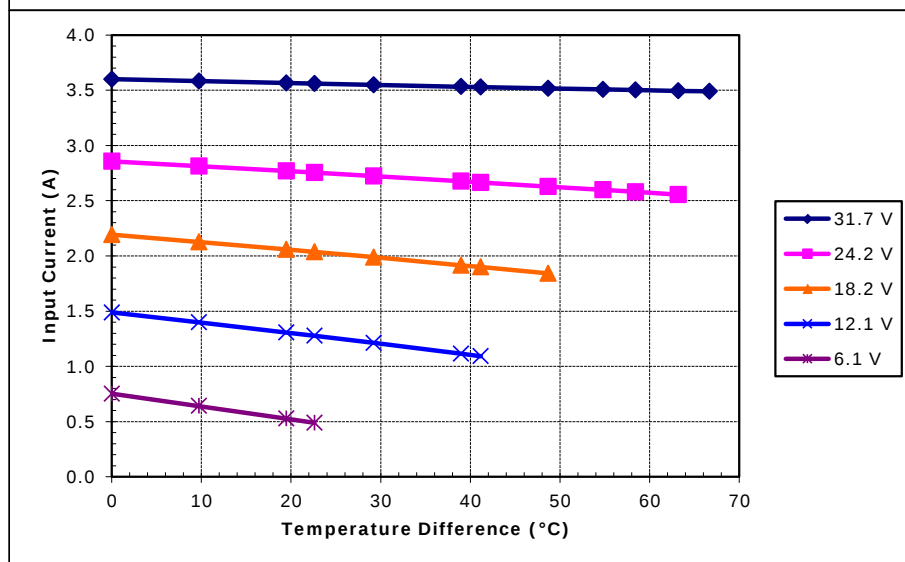
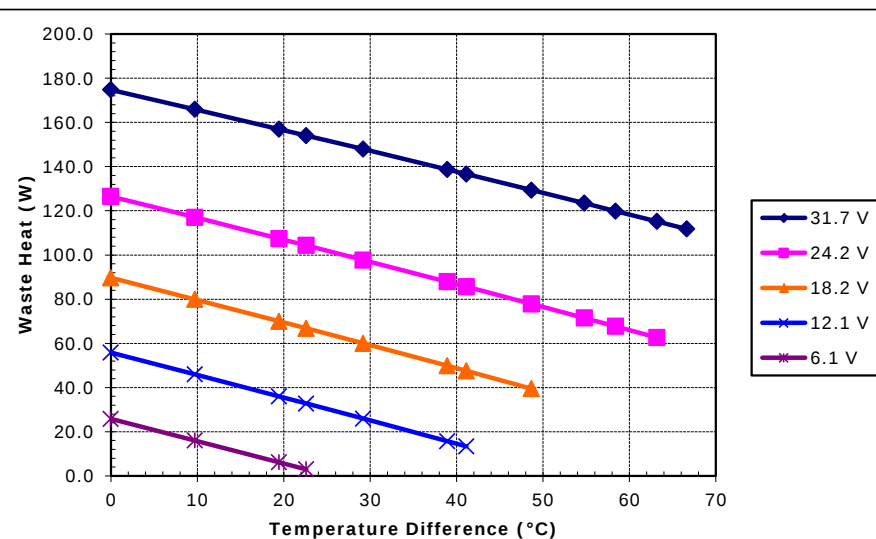
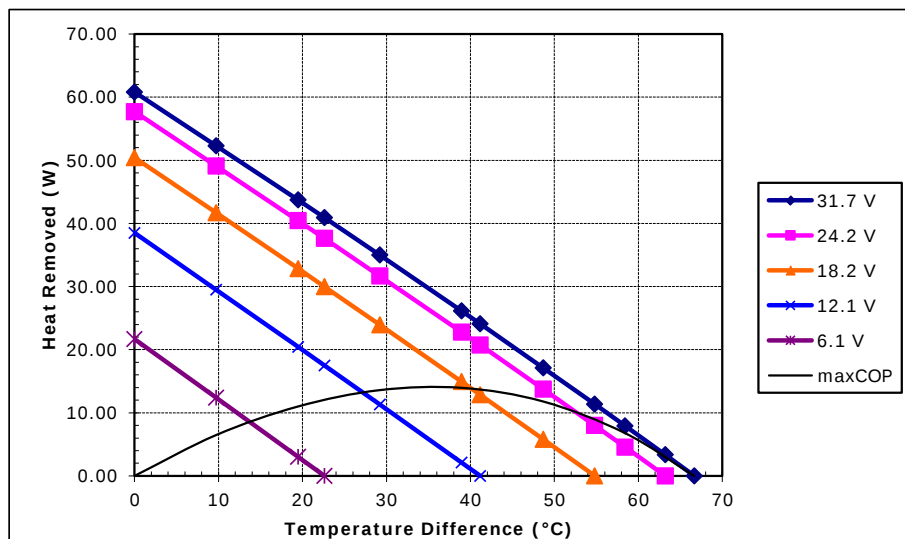
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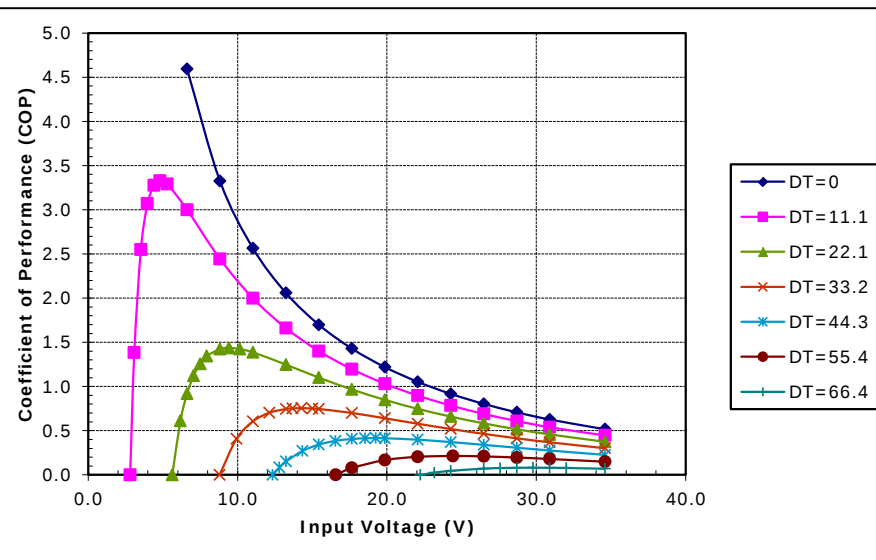
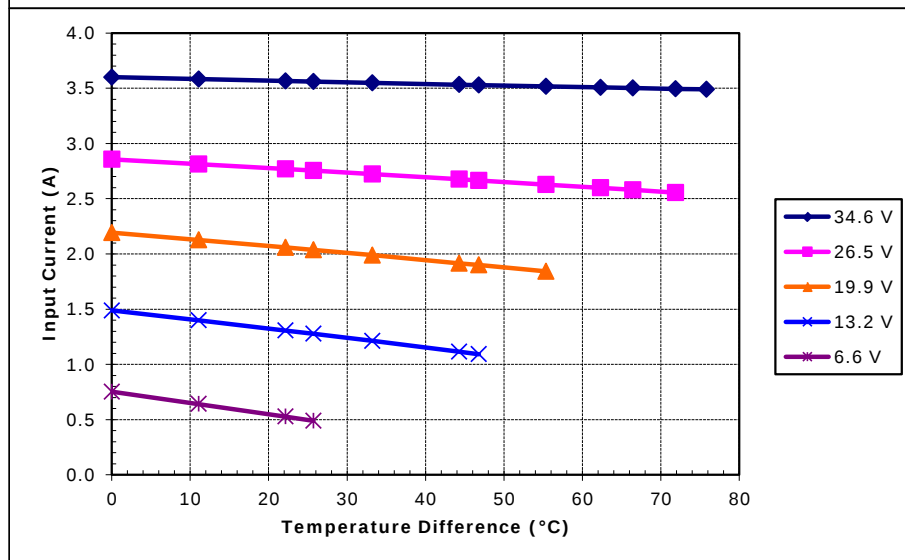
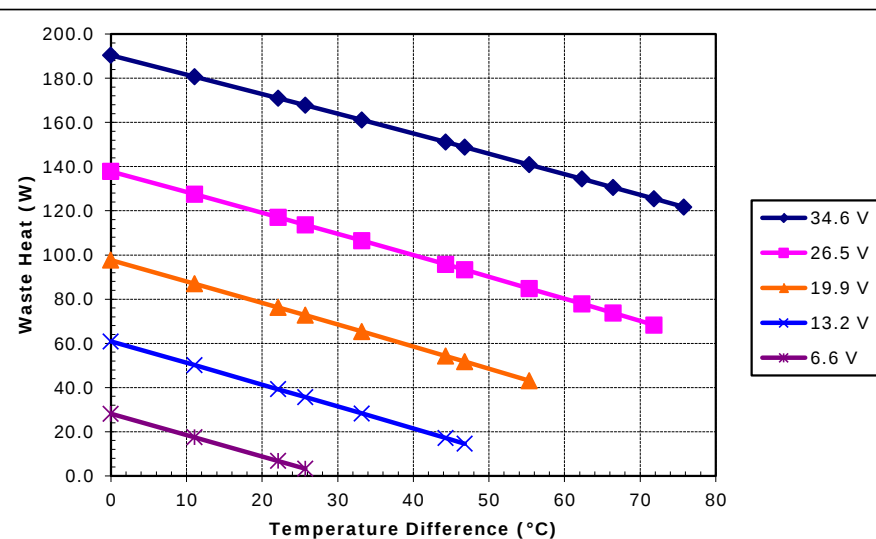
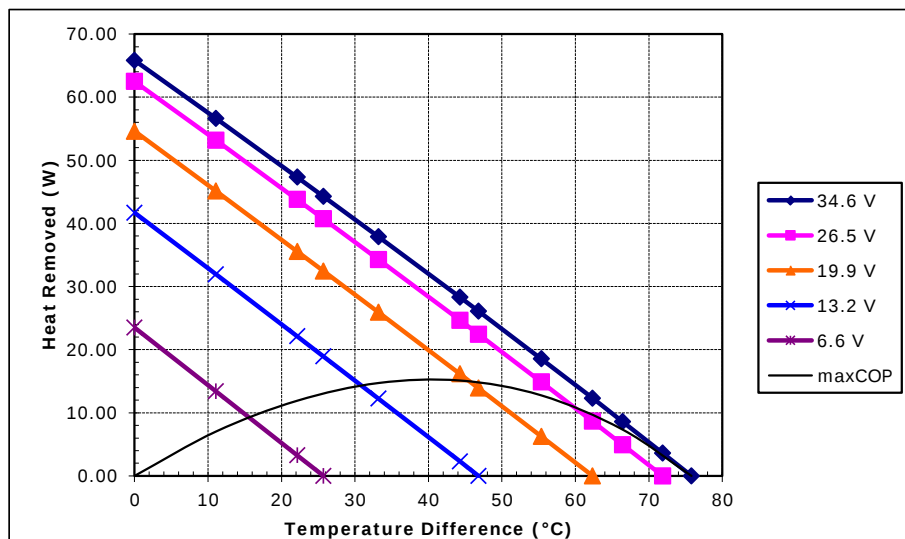
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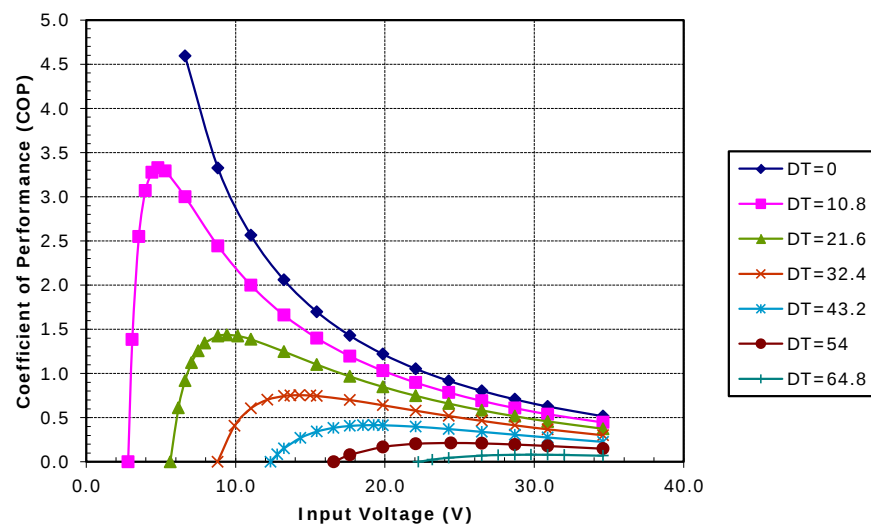
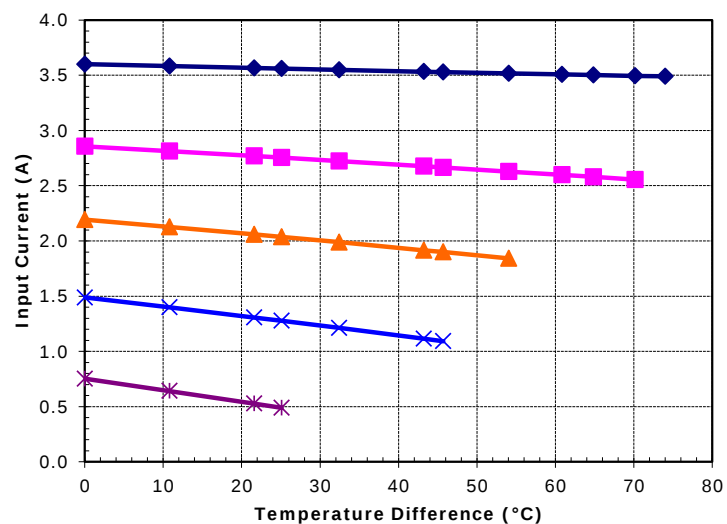
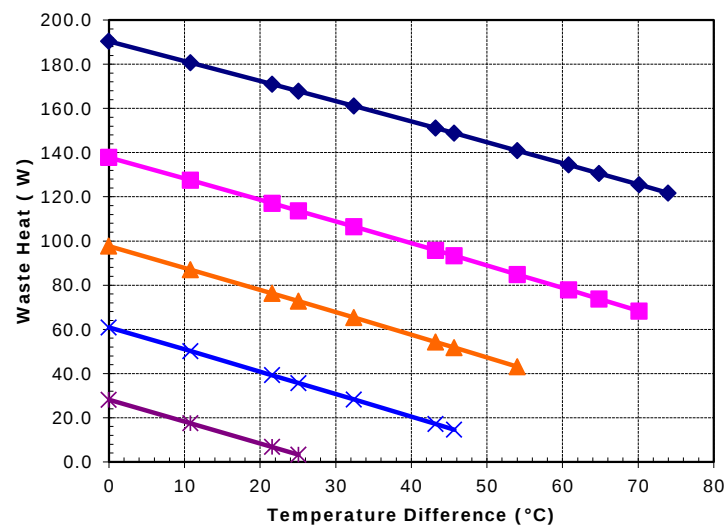
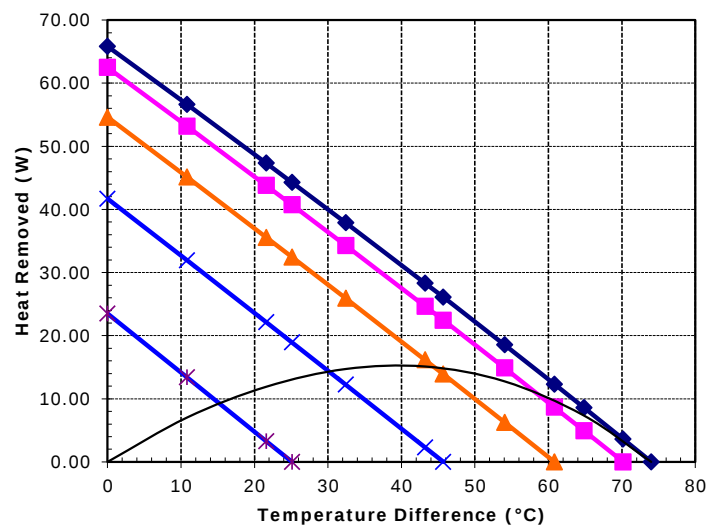
Unpotted SP-254-1.0-1.3 (Series) at a hot-side temperature of 30 °C



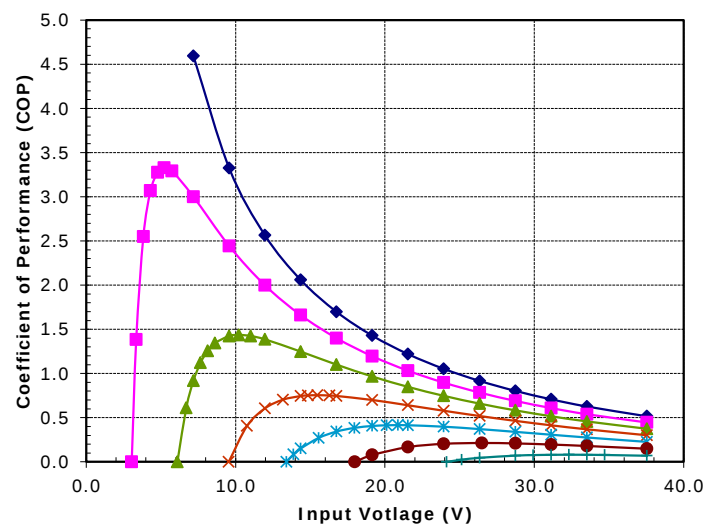
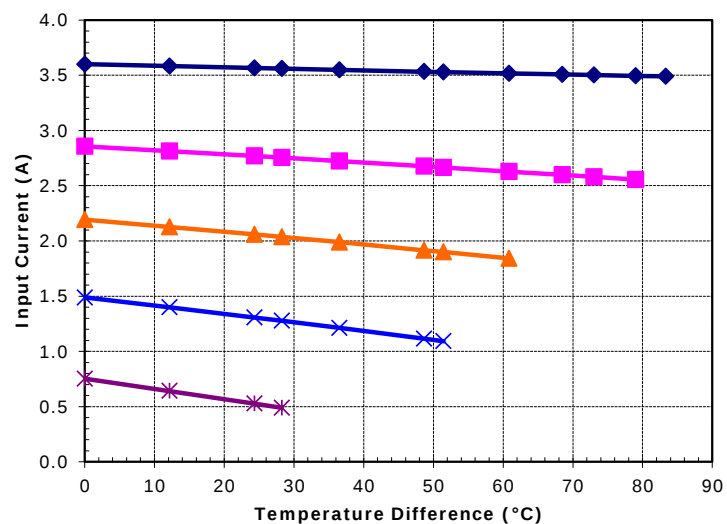
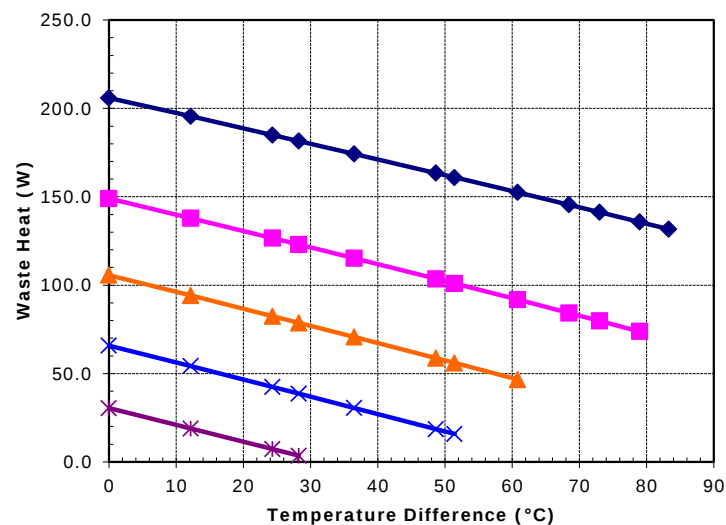
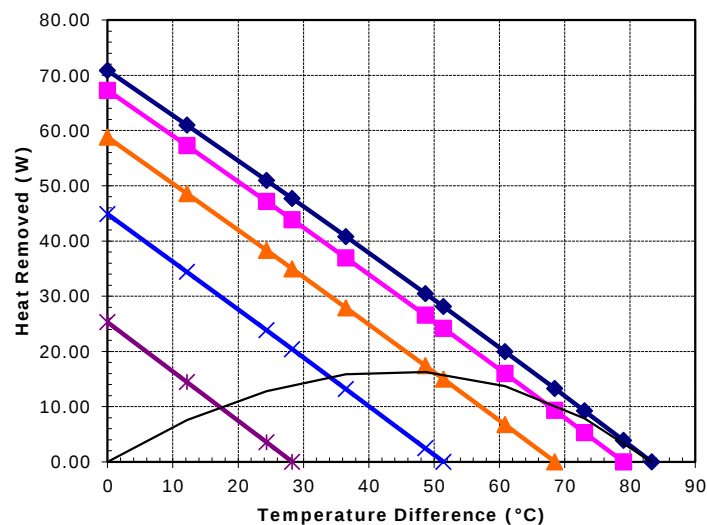
Potted SP-254-1.0-1.3 (Series) at a hot-side temperature of 30 °C



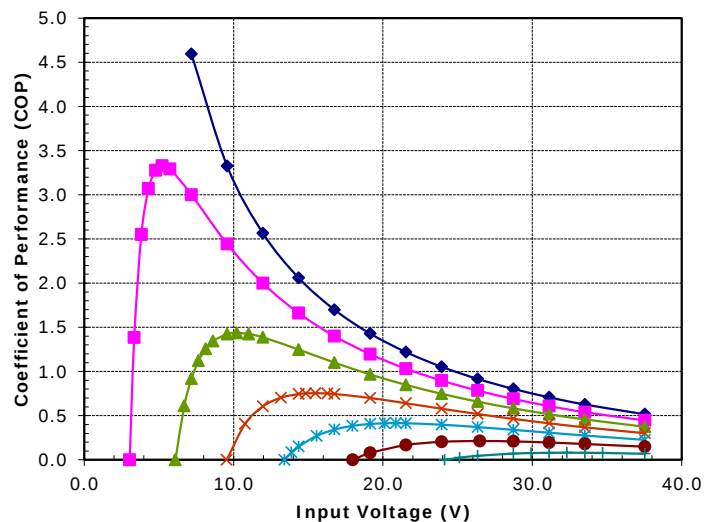
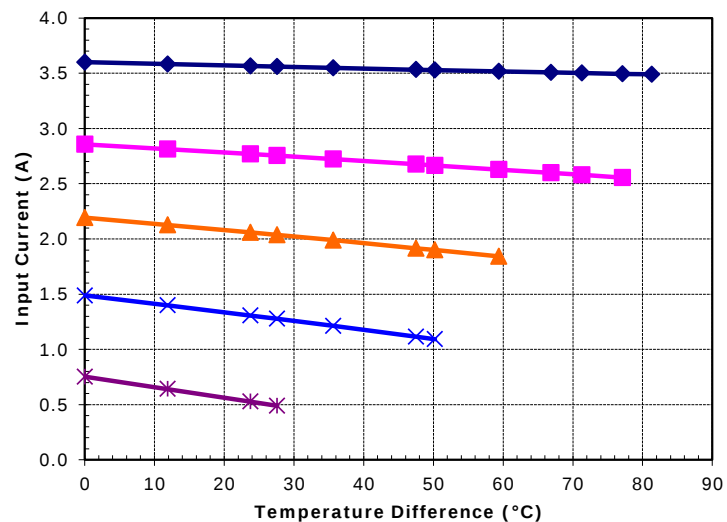
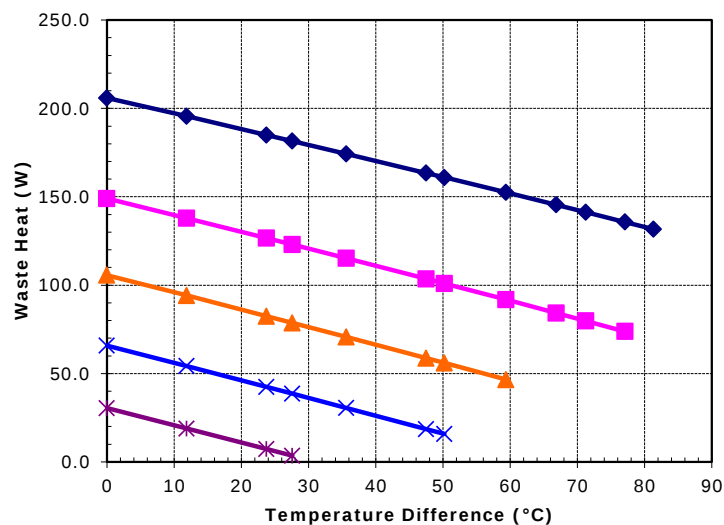
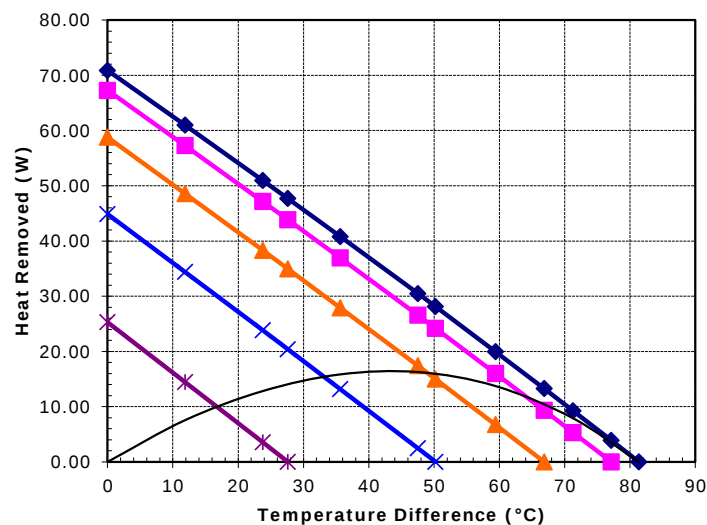
Unpotted SP-254-1.0-1.3 (Series) at a hot-side temperature of 50 °C



Potted SP-254-1.0-1.3 (Series) at a hot-side temperature of 50 °C



Unpotted SP-254-1.0-1.3 (Series) at a hot-side temperature of 70 °C



Potted SP-254-1.0-1.3 (Series) at a hot-side temperature of 70 °C

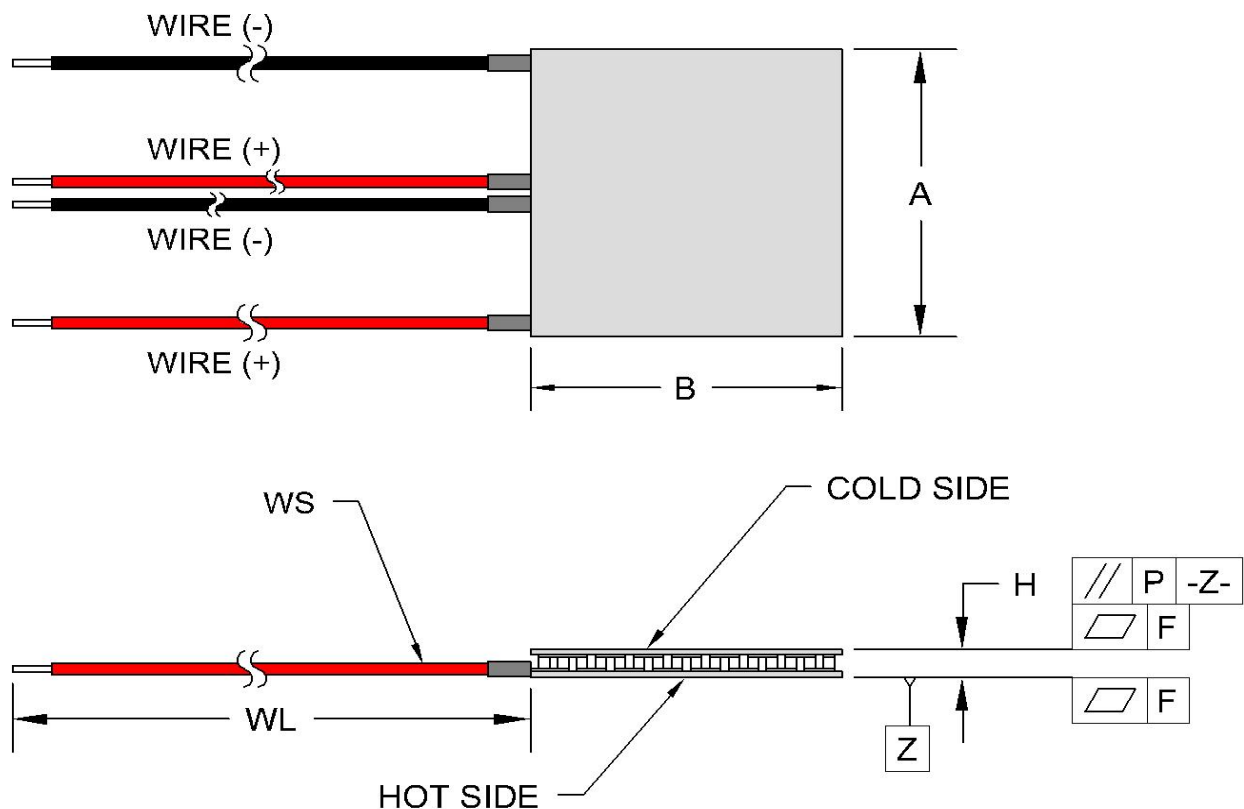
**SP-254-1.0-1.3 (Parallel)
Thermoelectric Module
(Peltier Module)
Specifications**

	Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)
Vmax (V)	15.7	17.4
I _{max} (A)	7.2	7.2
Q _{max} (W)	70.0	76.8
DT _{max} (°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)	3.6 ±0.05
Flatness, F (mm)	0.02
Parallelism, P (mm)	0.03
Wire Size, WS (mm ²)	0.34
Wire Length, WL (mm)	120

Optional Features and Notes:

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

Module can be configured in series mode as well.

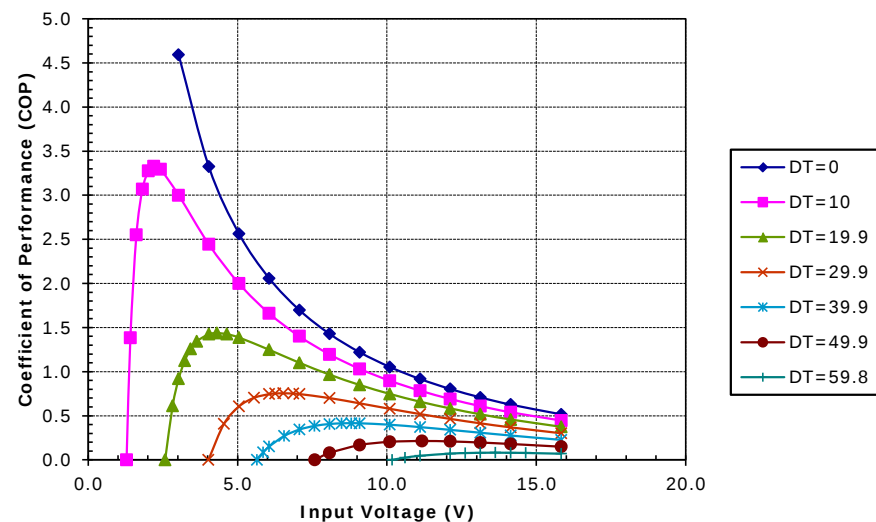
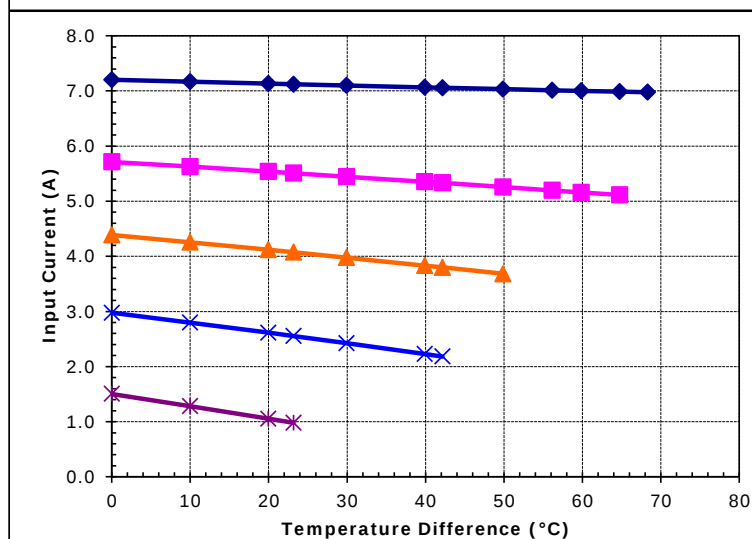
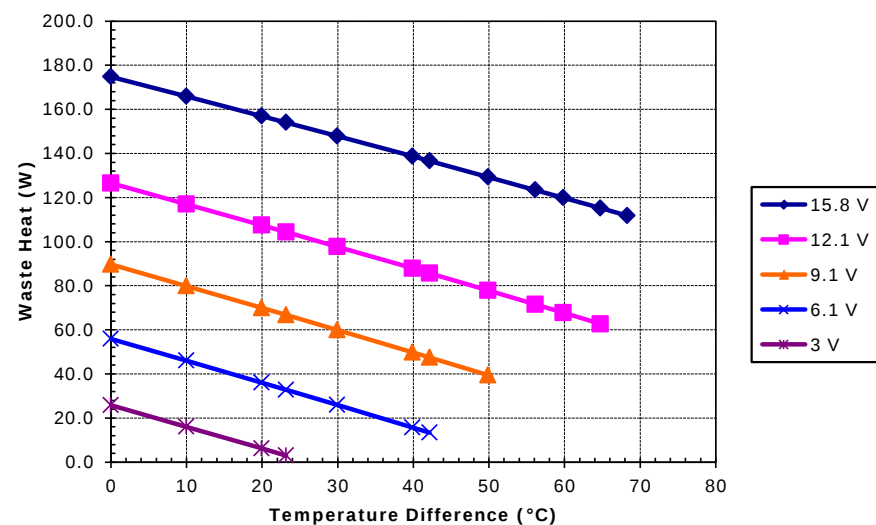
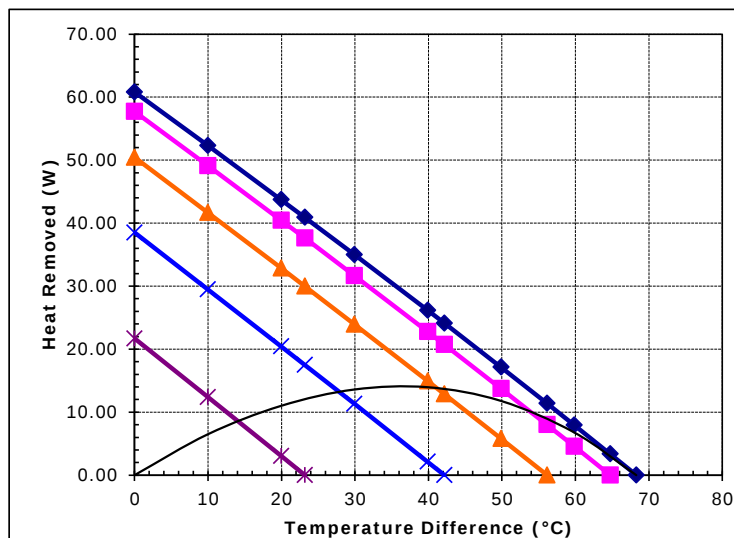
Performance graphs include thermal resistance of substrates.

RoHS Compliant

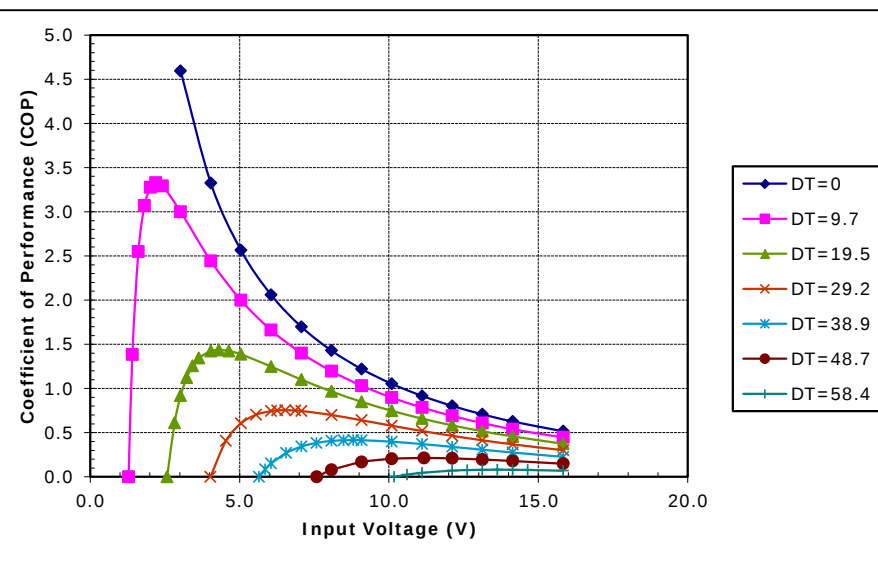
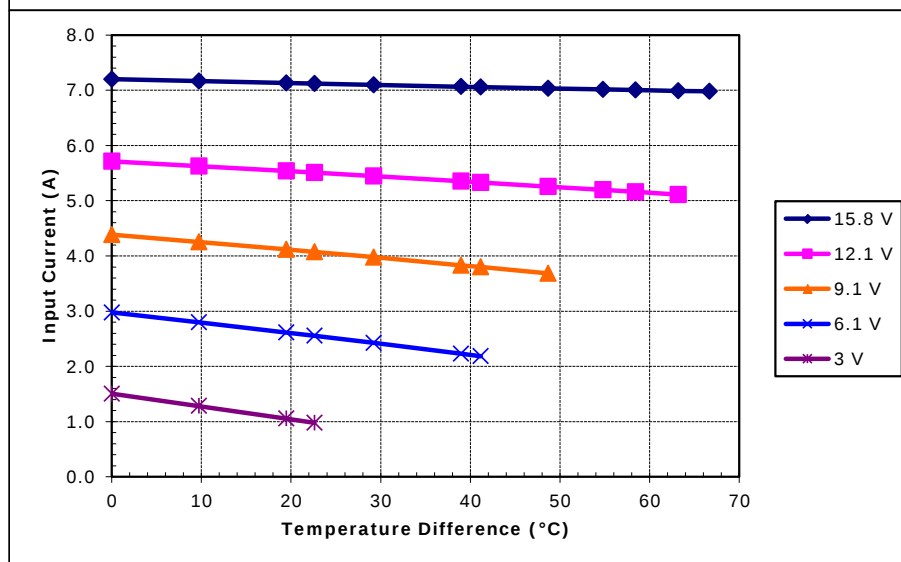
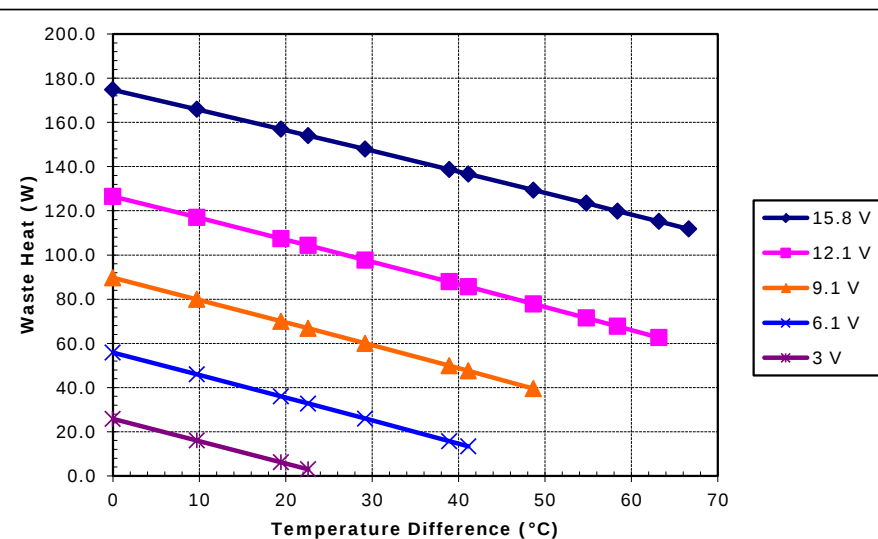
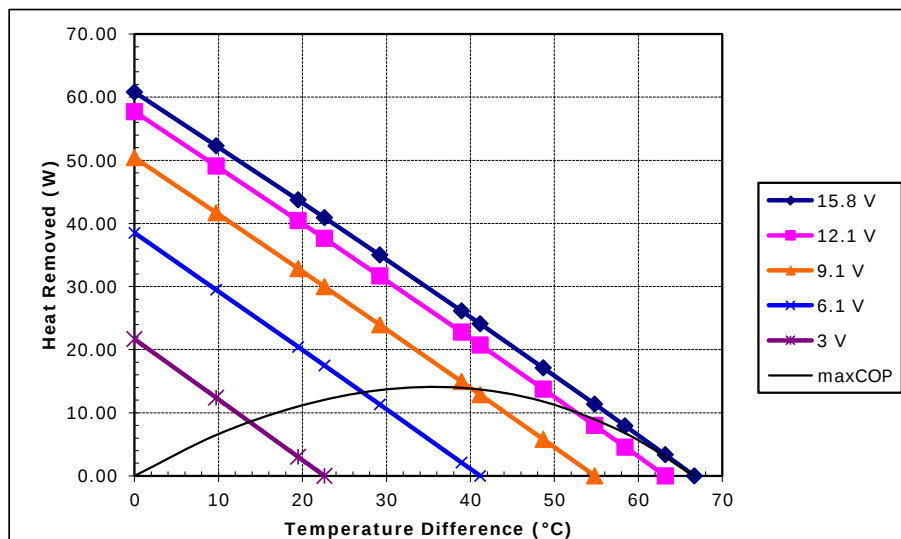
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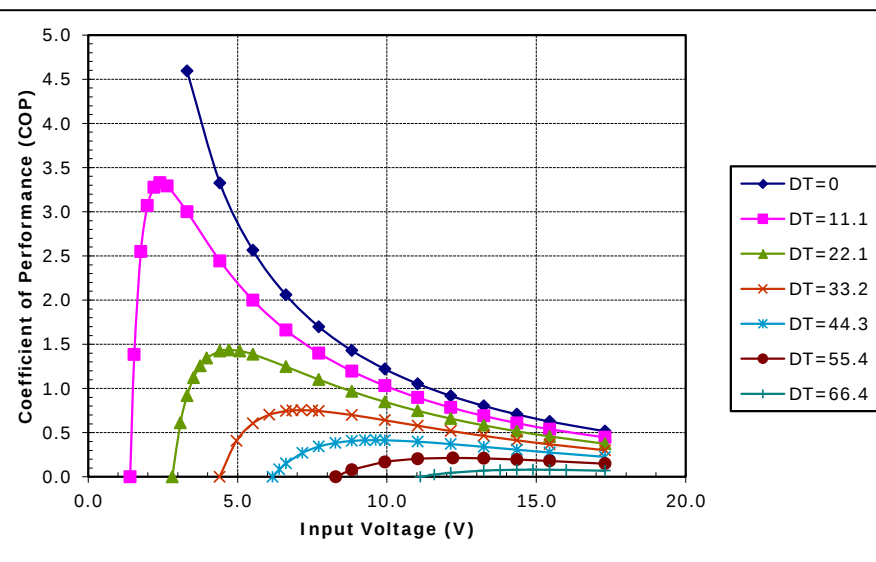
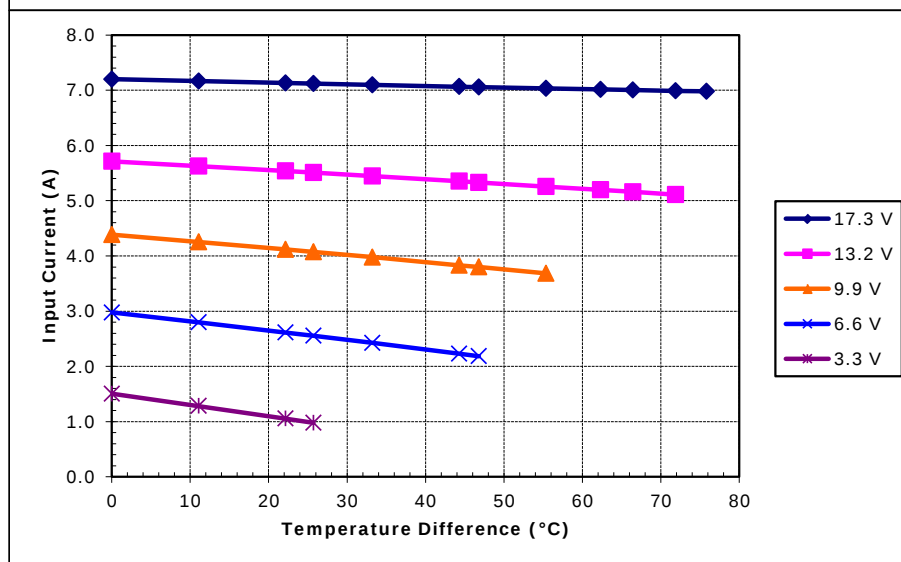
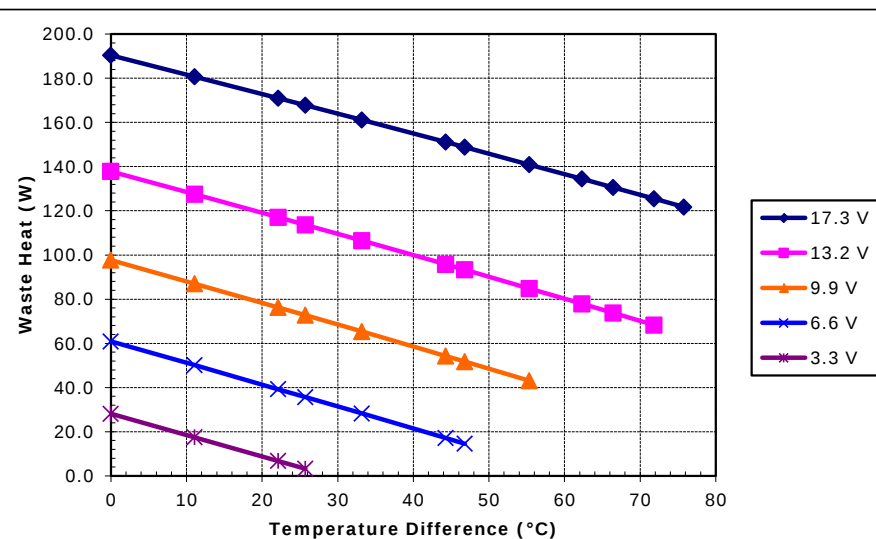
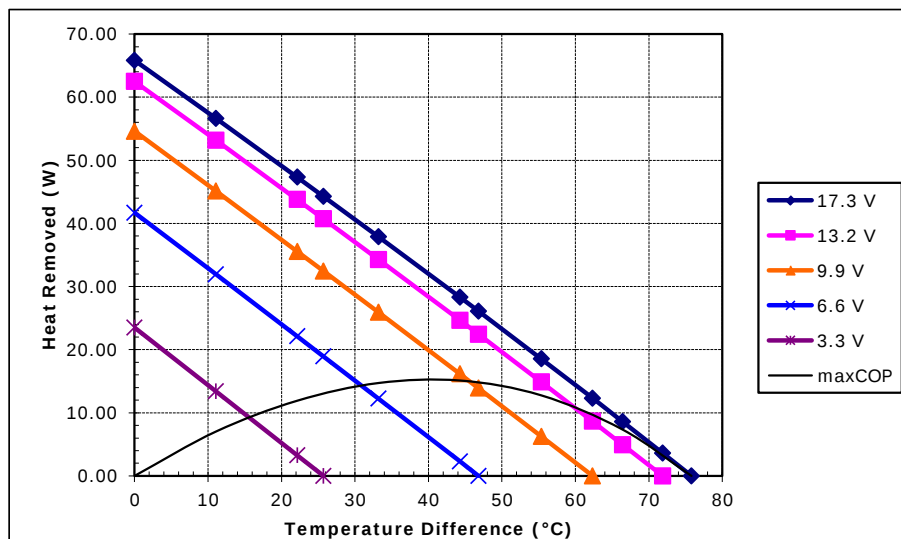
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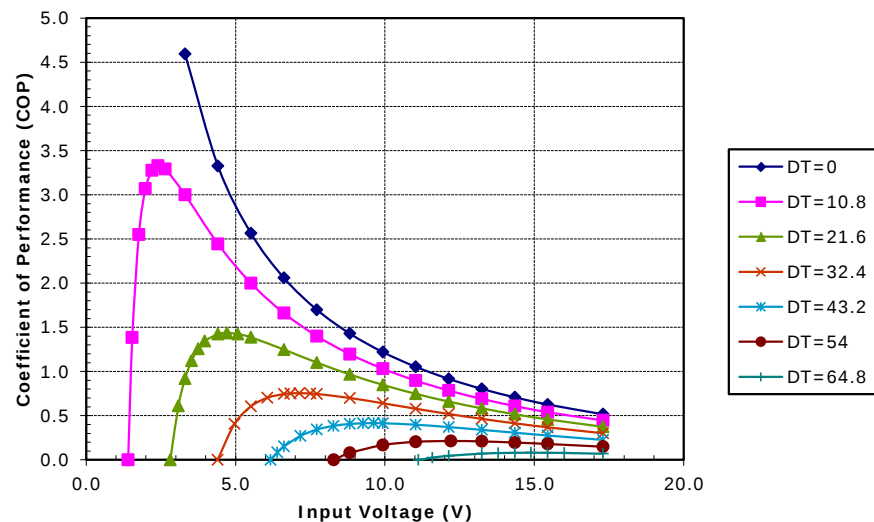
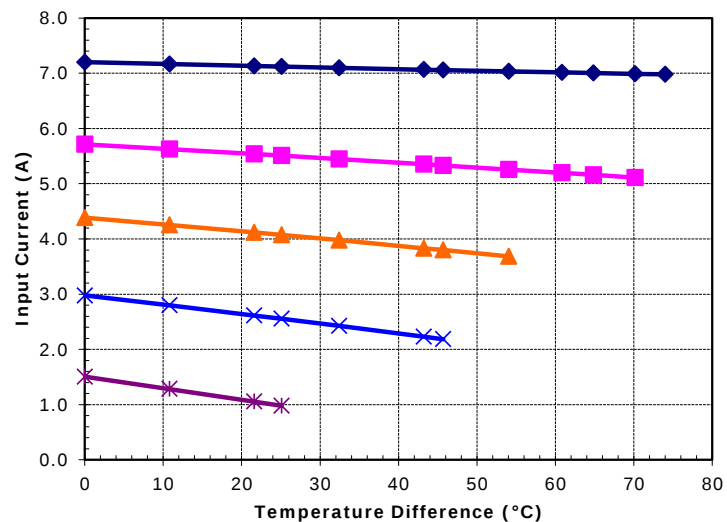
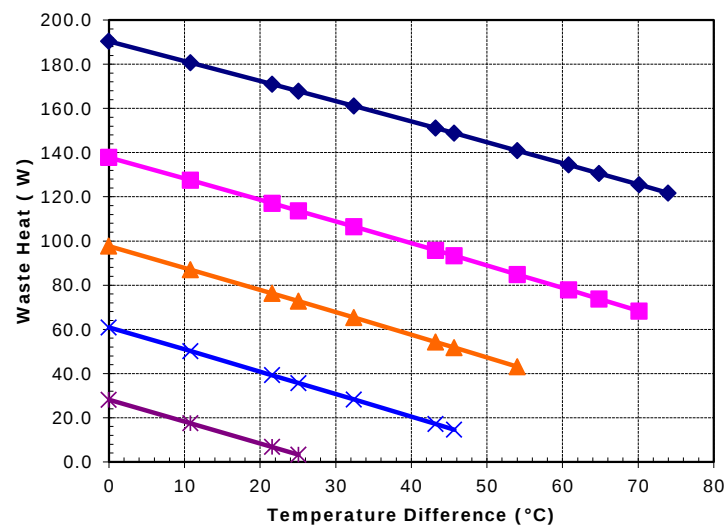
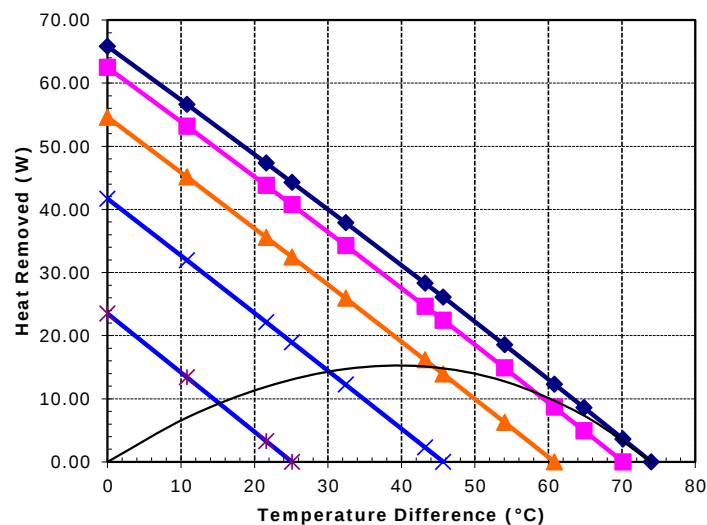
Unpotted SP-254-1.0-1.3 (Parallel) at a hot-side temperature of 30 °C



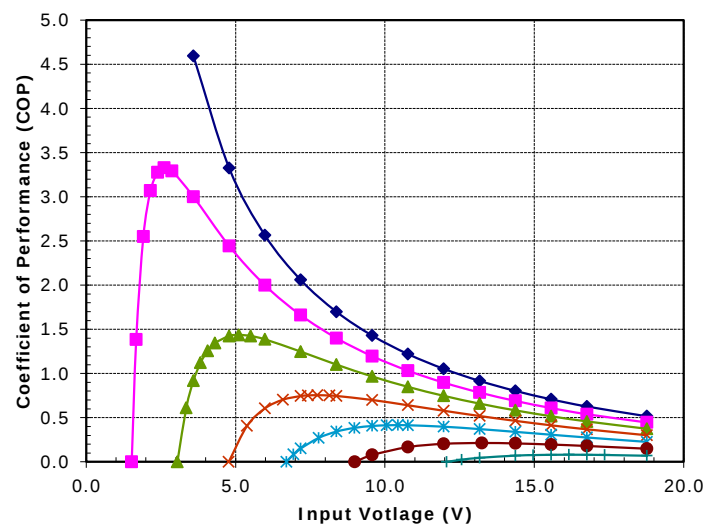
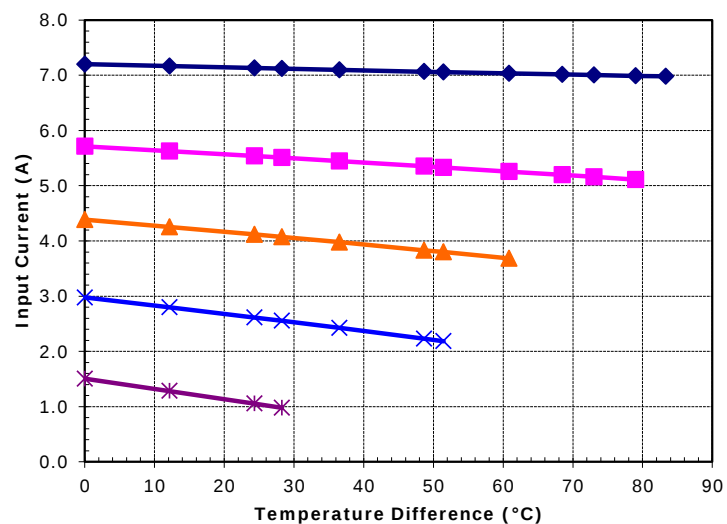
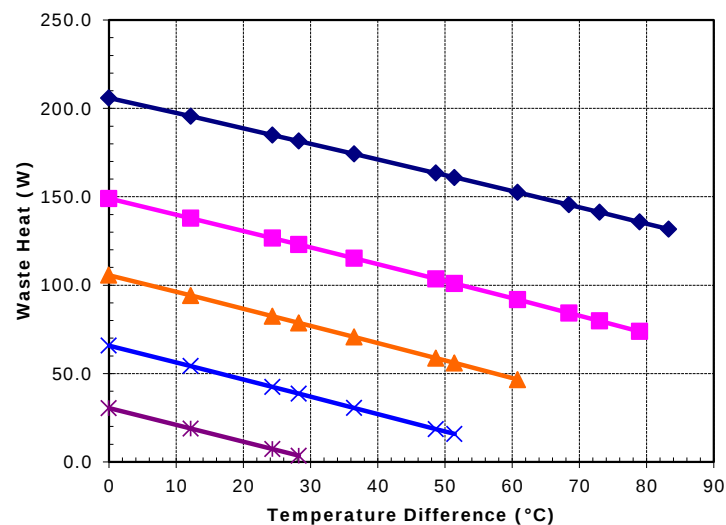
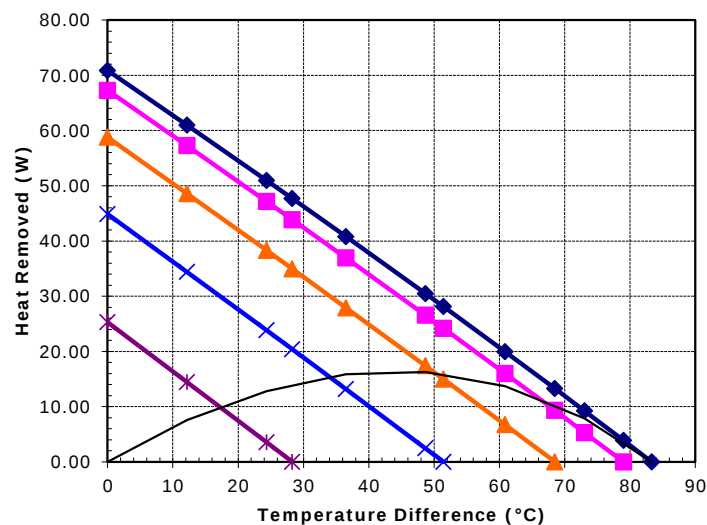
Potted SP-254-1.0-1.3 (Parallel) at a hot-side temperature of 30 °C



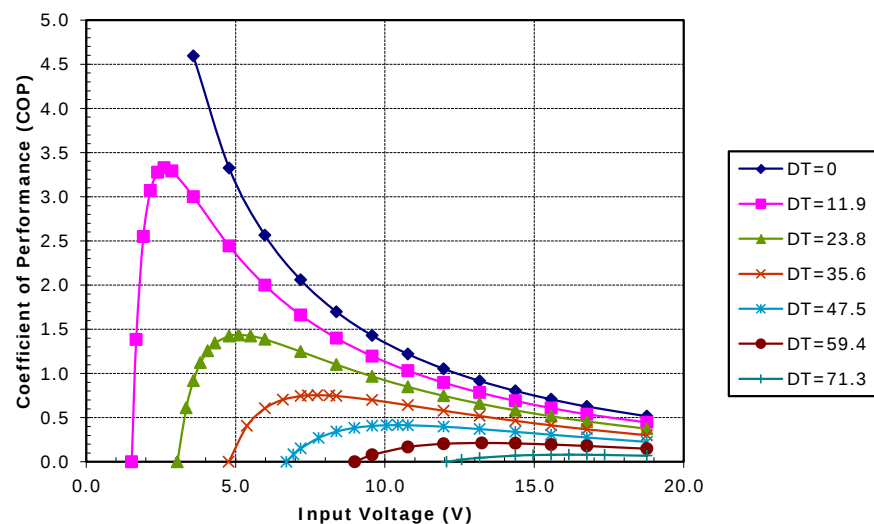
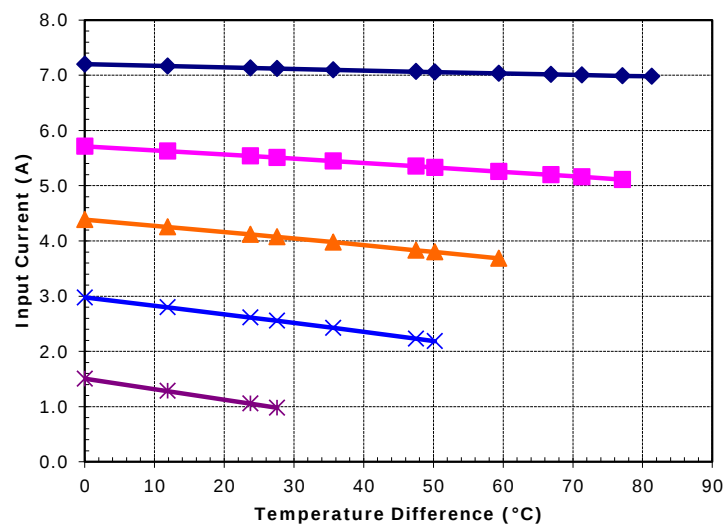
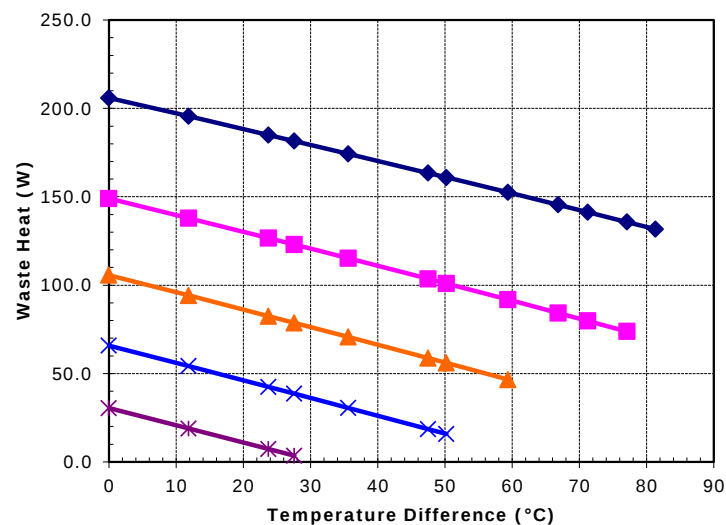
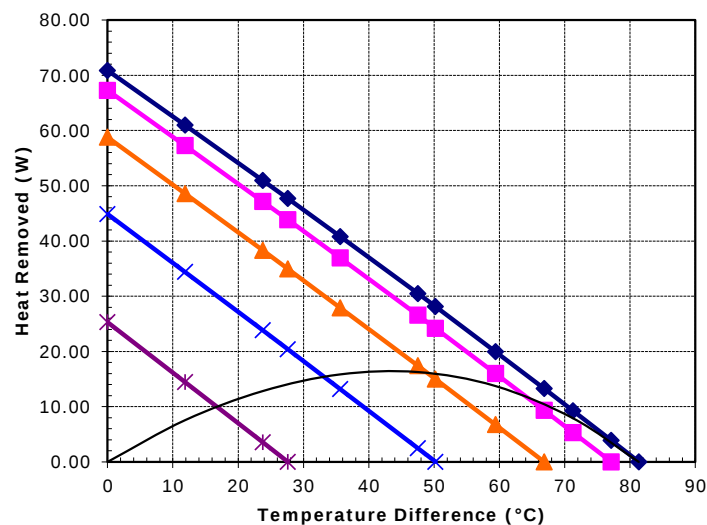
Unpotted SP-254-1.0-1.3 (Parallel) at a hot-side temperature of 50 °C



Potted SP-254-1.0-1.3 (Parallel) at a hot-side temperature of 50 °C



Unpotted SP-254-1.0-1.3 (Parallel) at a hot-side temperature of 70 °C



Potted SP-254-1.0-1.3 (Parallel) at a hot-side temperature of 70 °C