

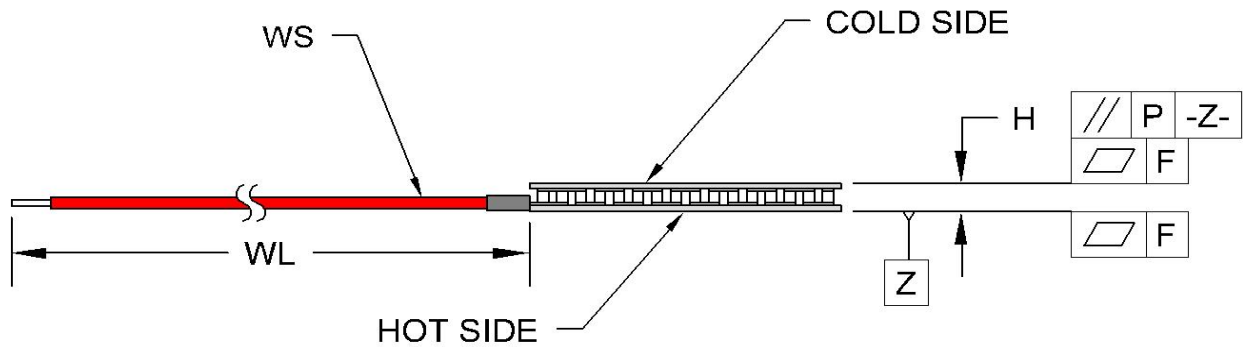
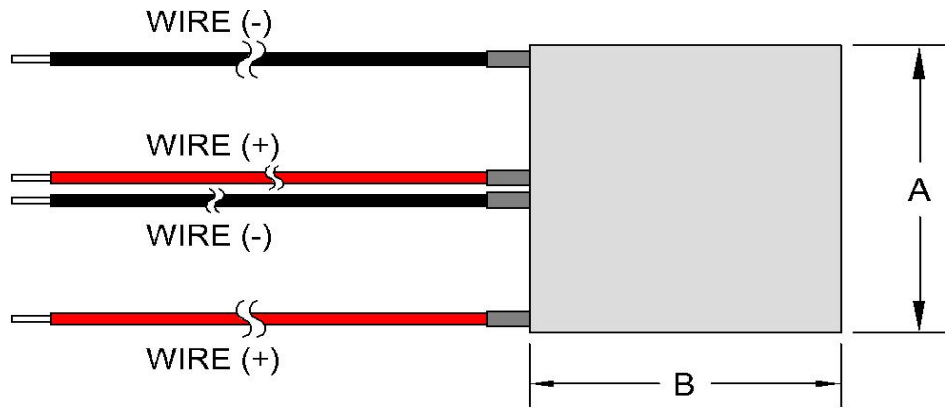
**SP-254-1.0-2.5 (Series)
Thermoelectric Module
(Peltier Module)
Specifications**

	Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)
Vmax (V)	31.8	35.3
I _{max} (A)	1.9	1.9
Q _{max} (W)	36.6	40.2
DT _{max} (°C)	70	79
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)	4.8 ±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.

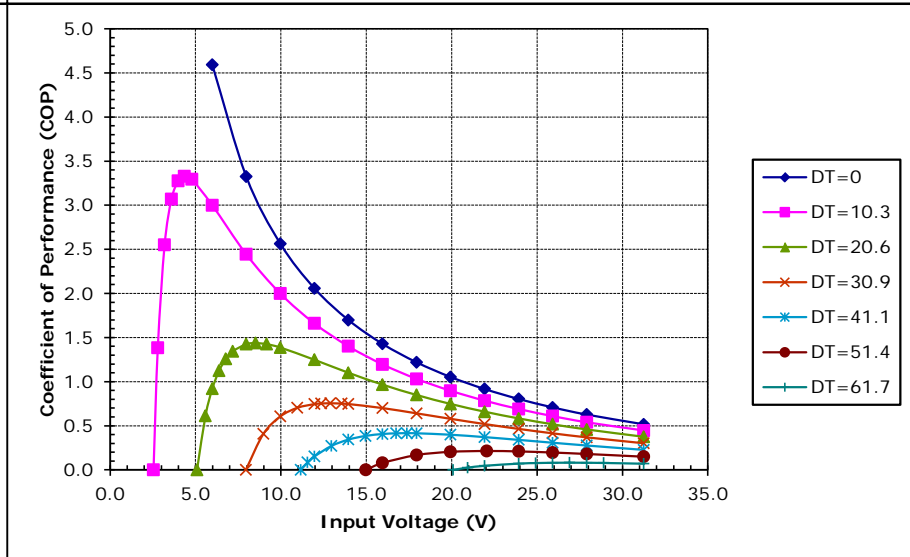
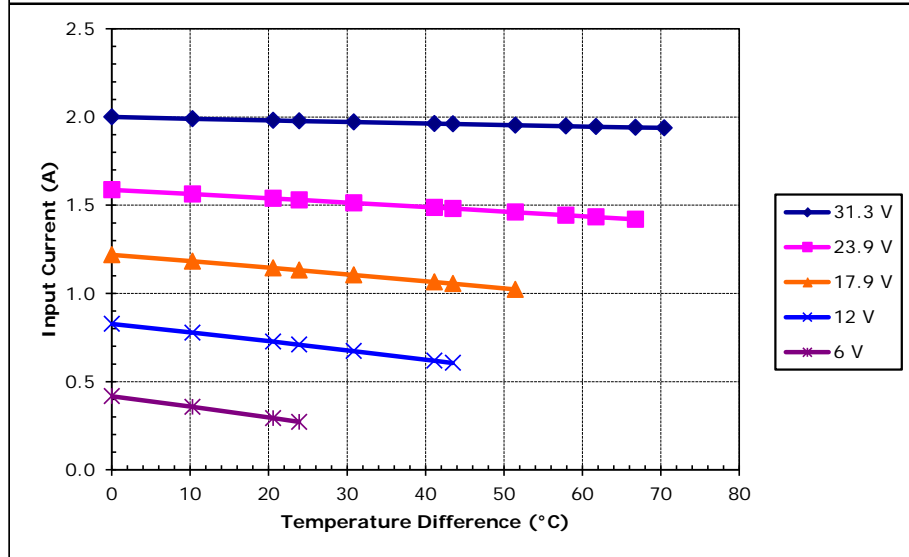
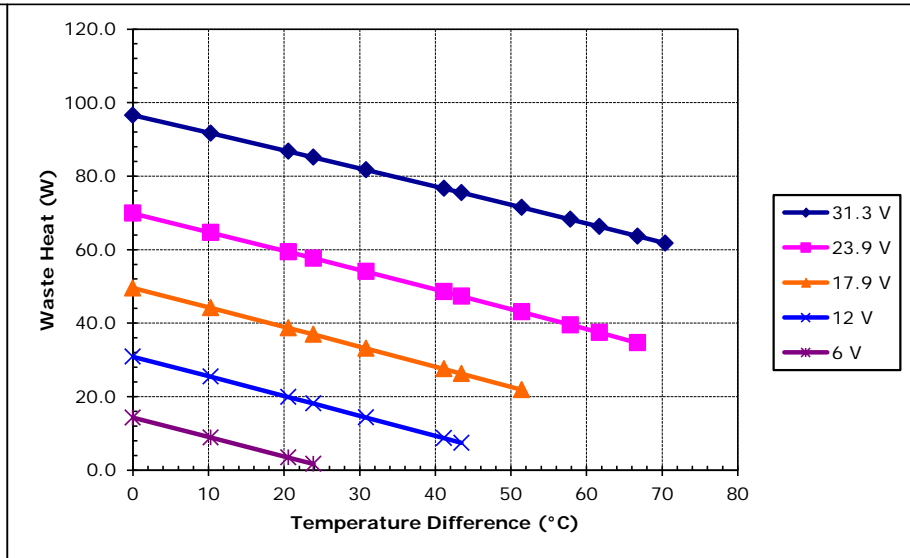
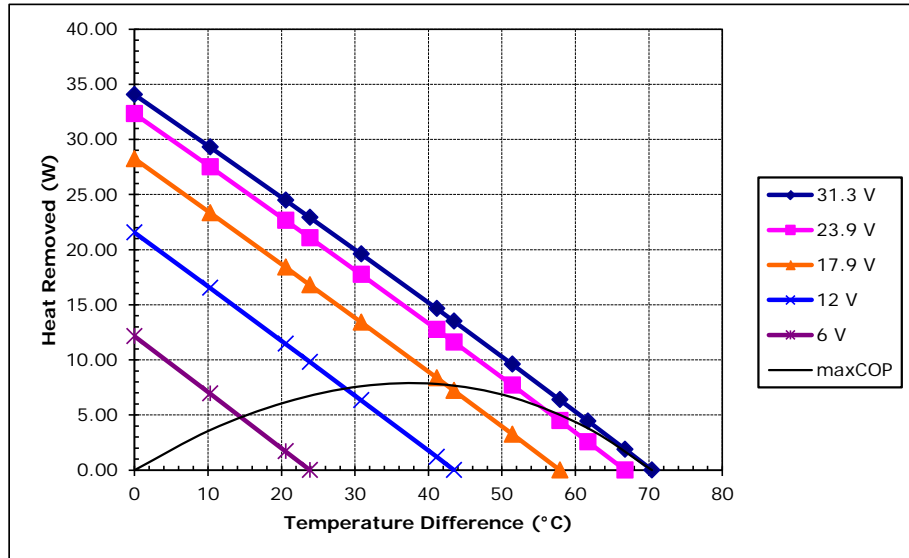
RoHS Compliant

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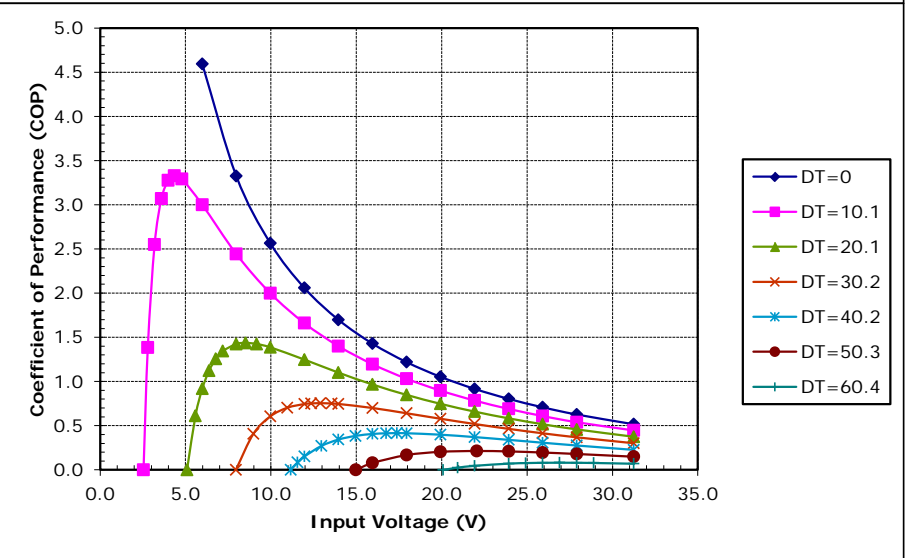
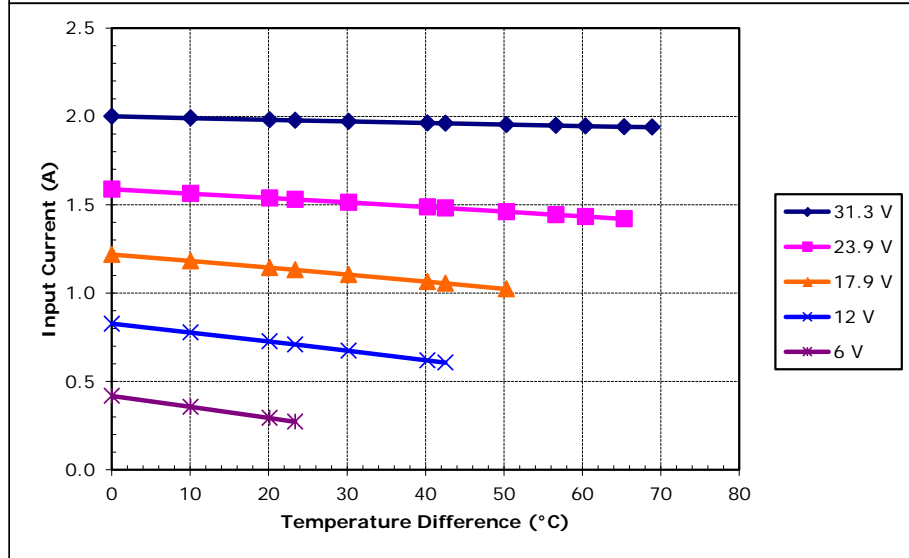
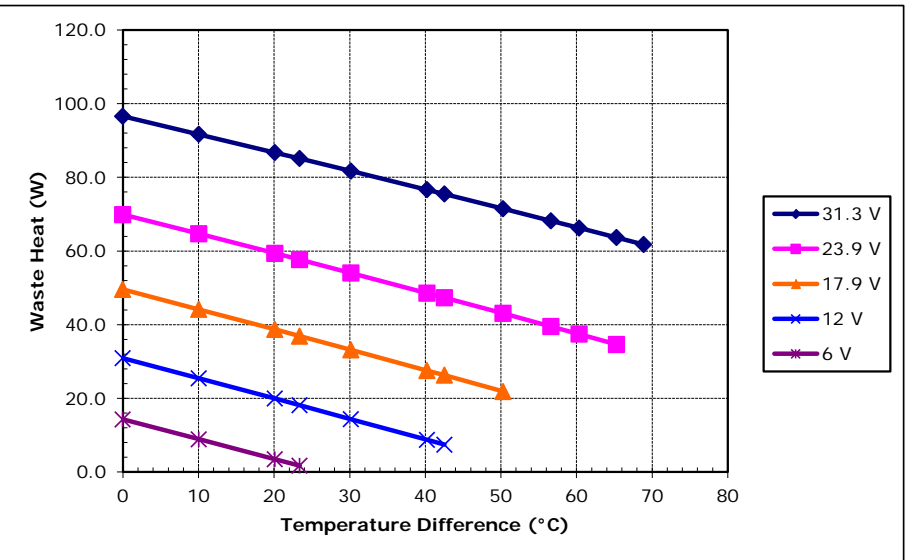
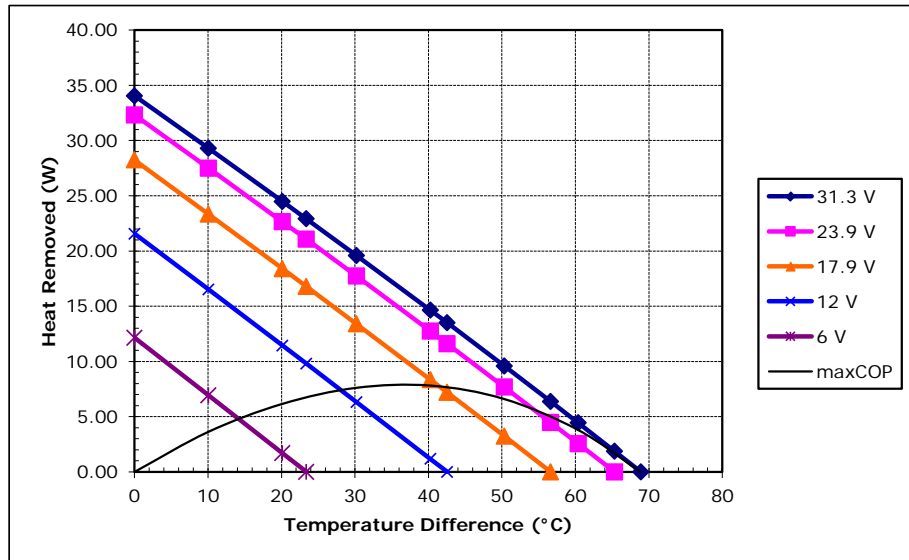
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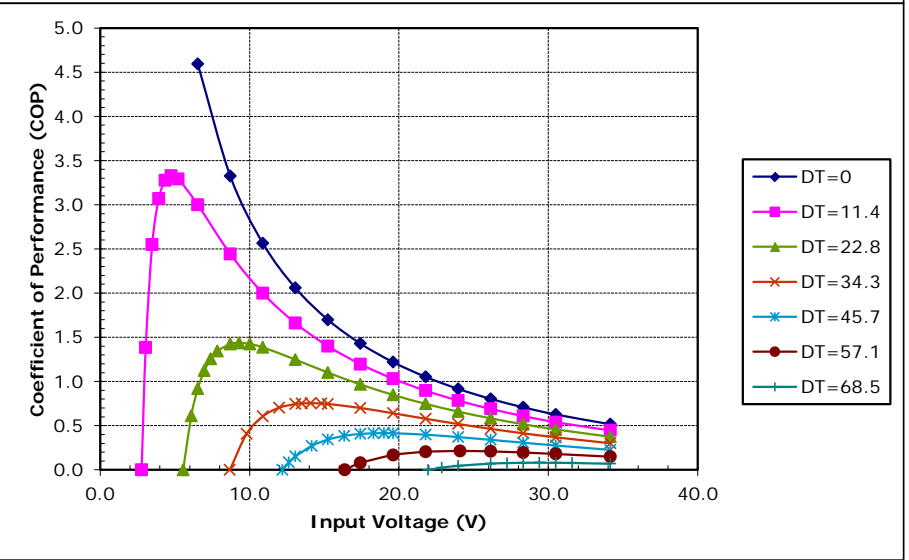
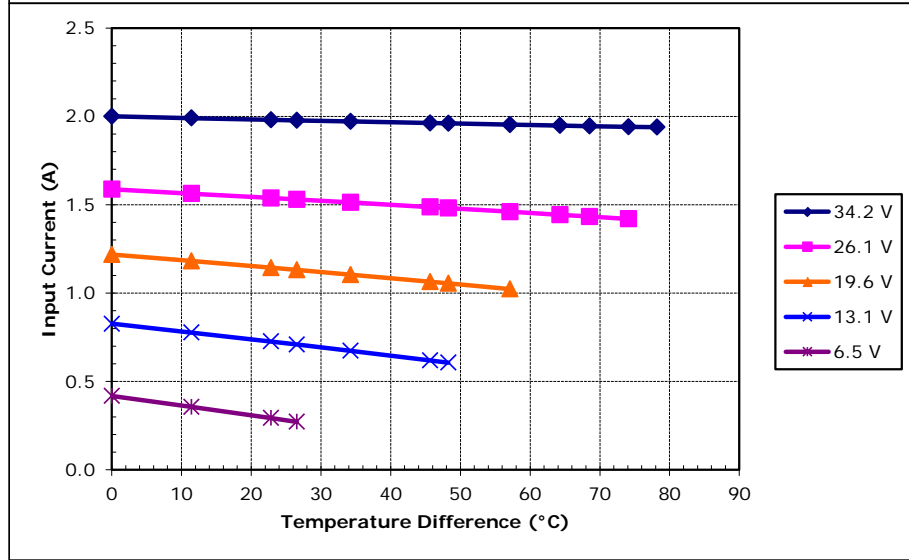
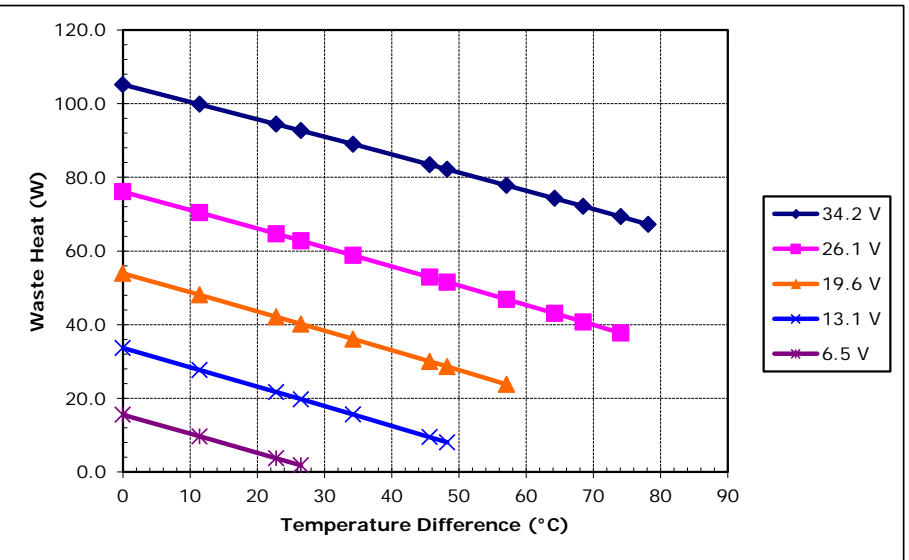
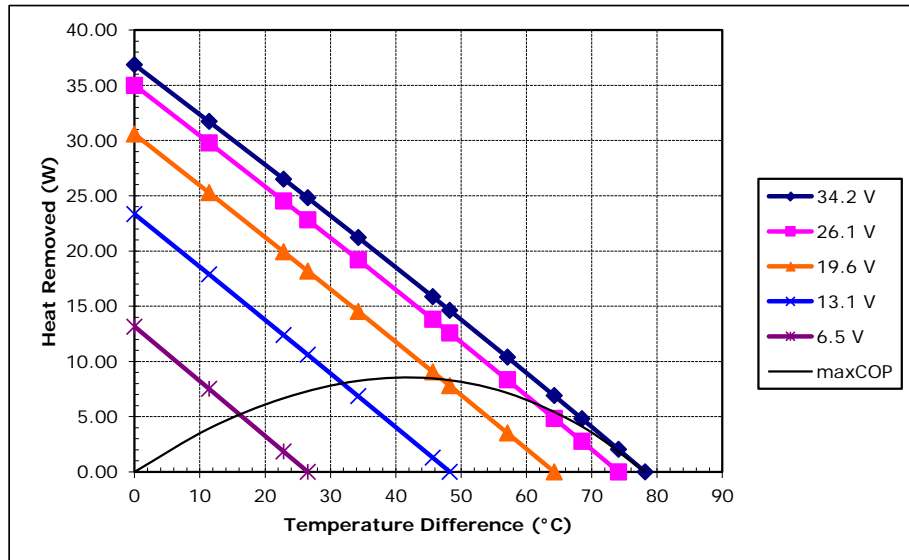
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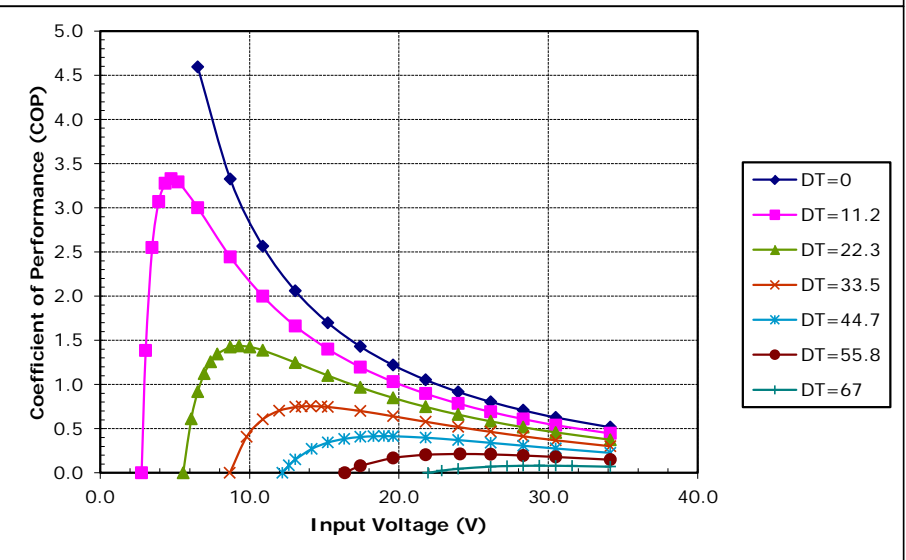
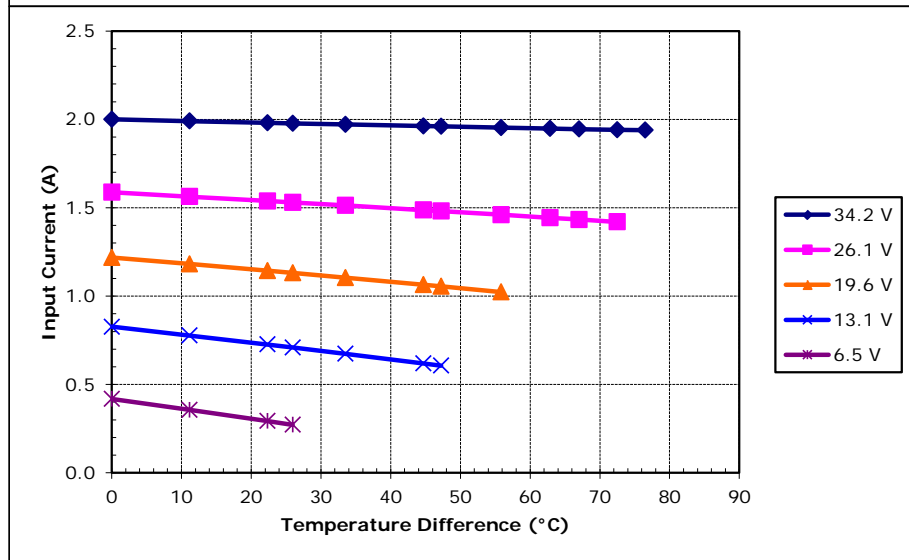
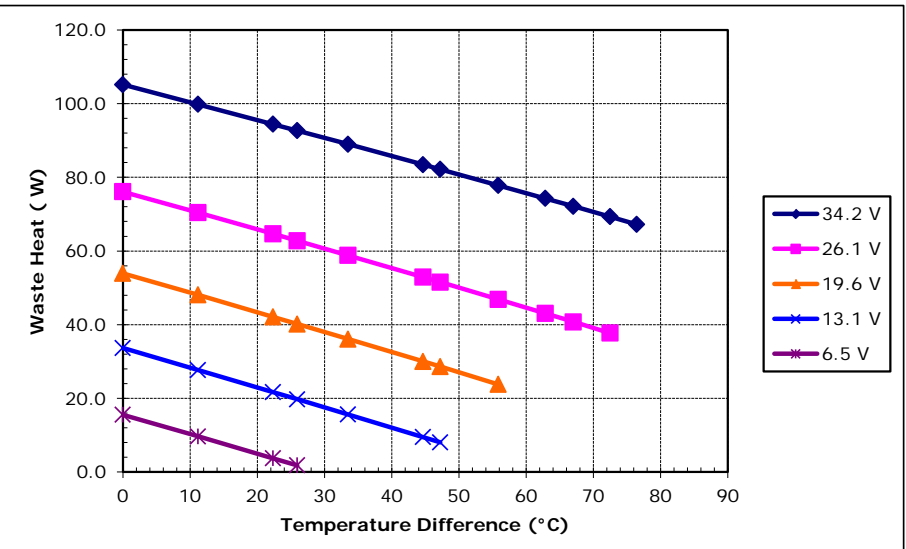
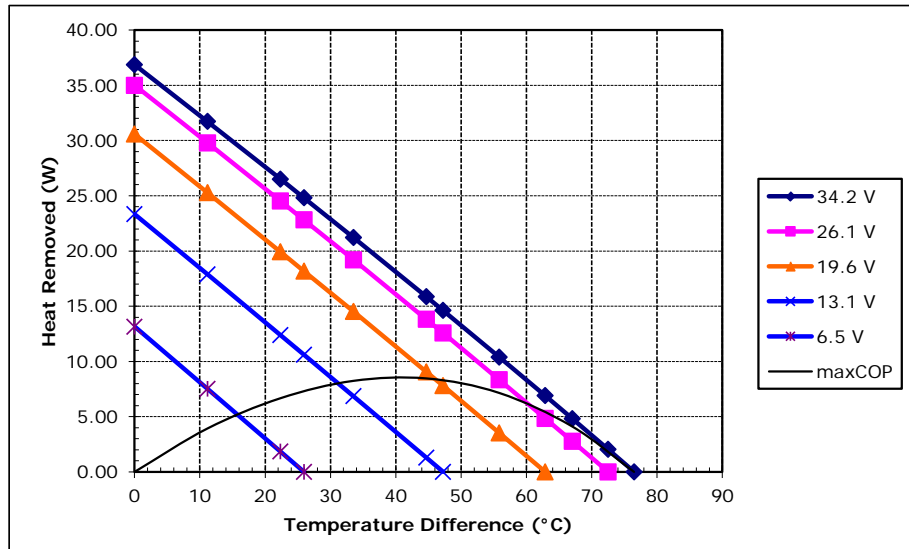
Unpotted SP-254-1.0-2.5 (Series) at a hot-side temperature of 30 °C



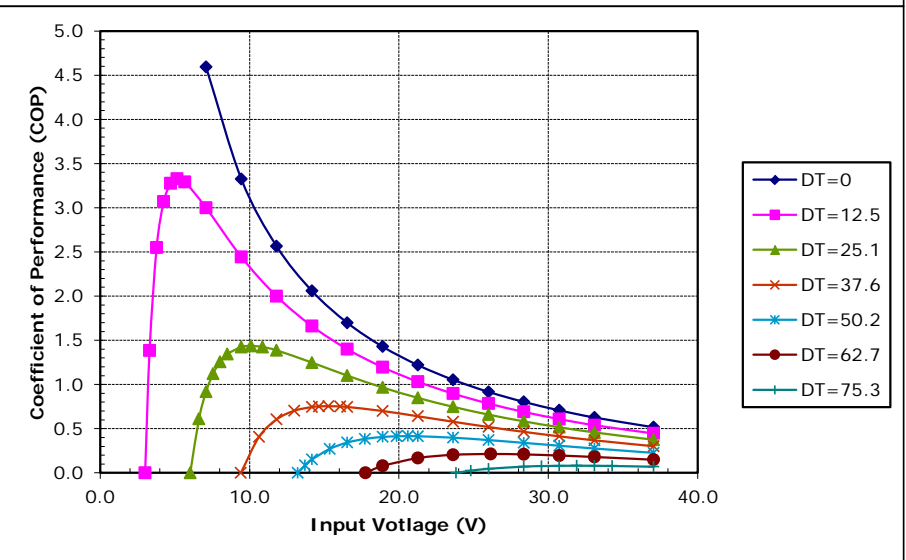
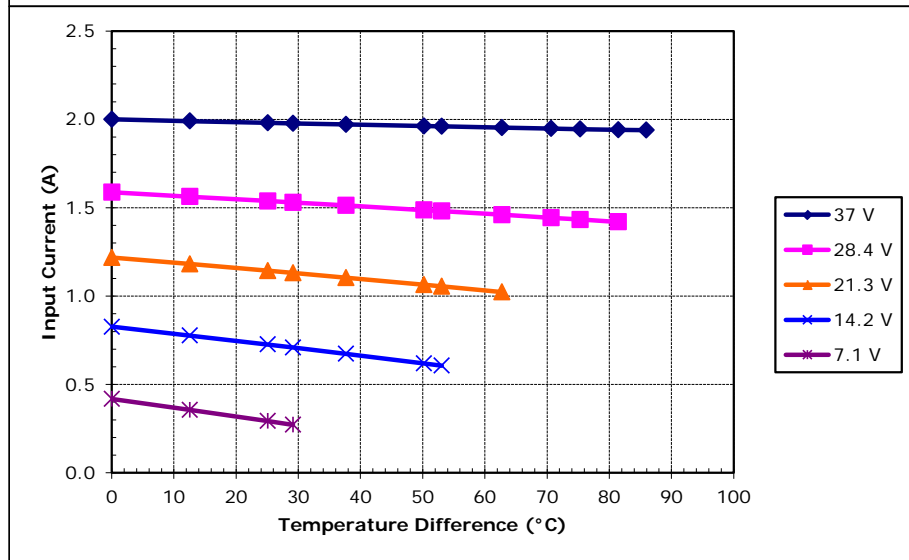
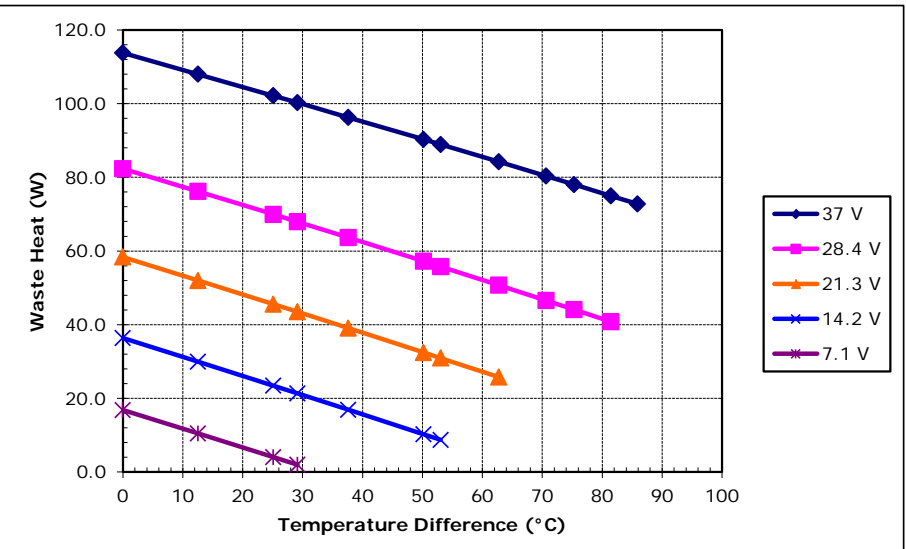
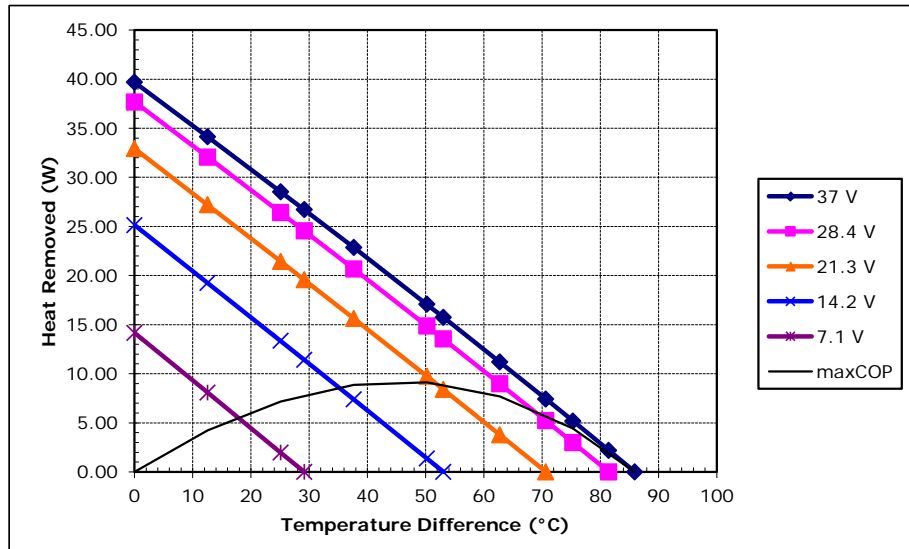
Potted SP-254-1.0-2.5 (Series) at a hot-side temperature of 30 °C



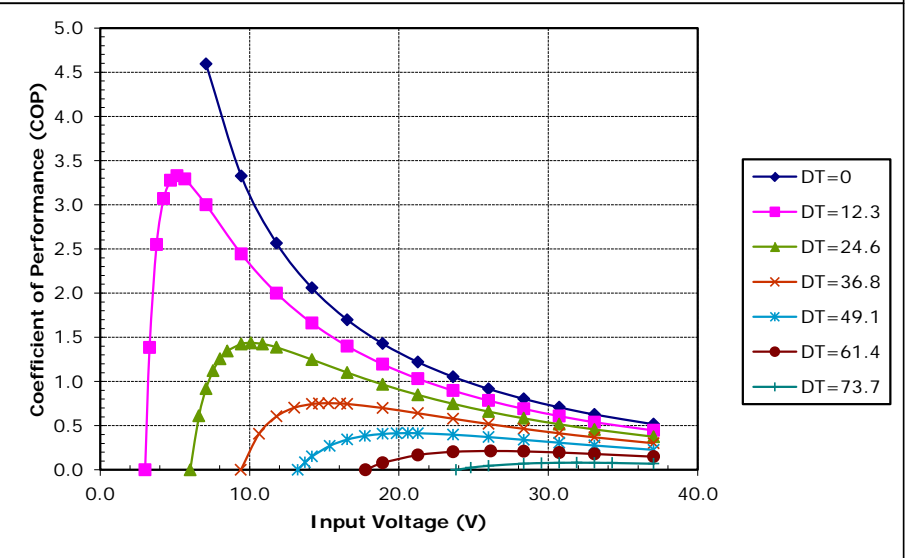
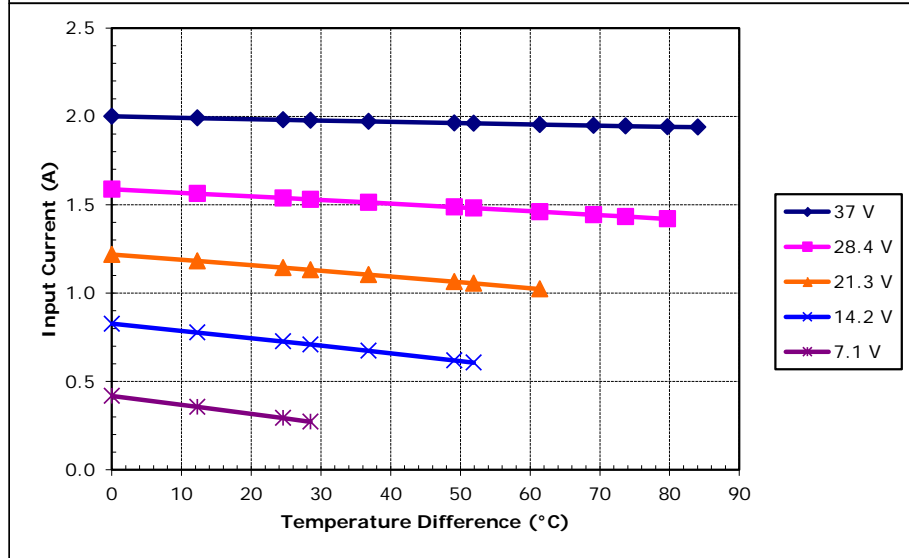
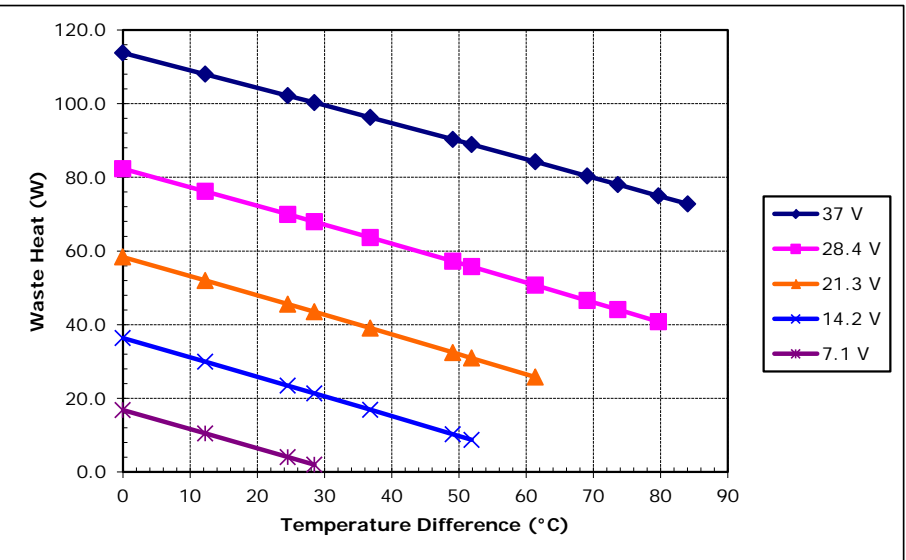
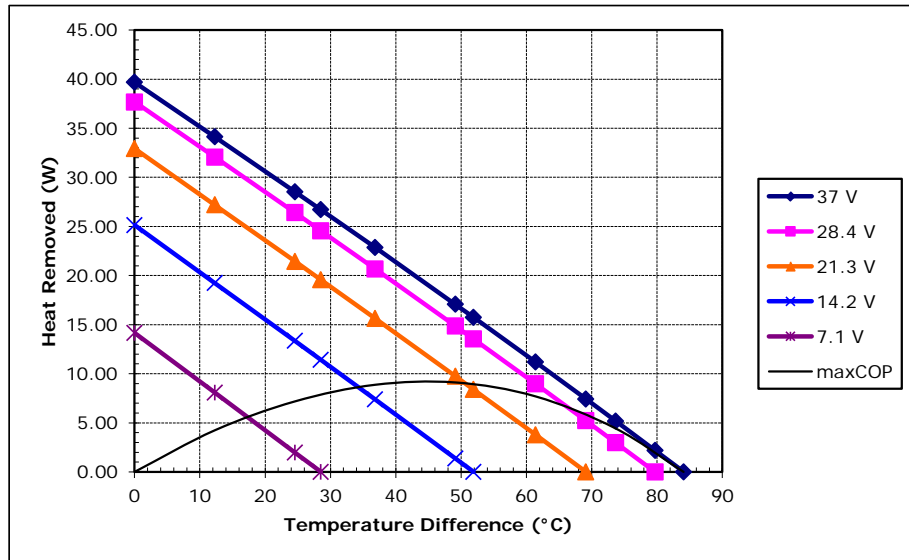
Unpotted SP-254-1.0-2.5 (Series) at a hot-side temperature of 50 °C



Potted SP-254-1.0-2.5 (Series) at a hot-side temperature of 50 °C

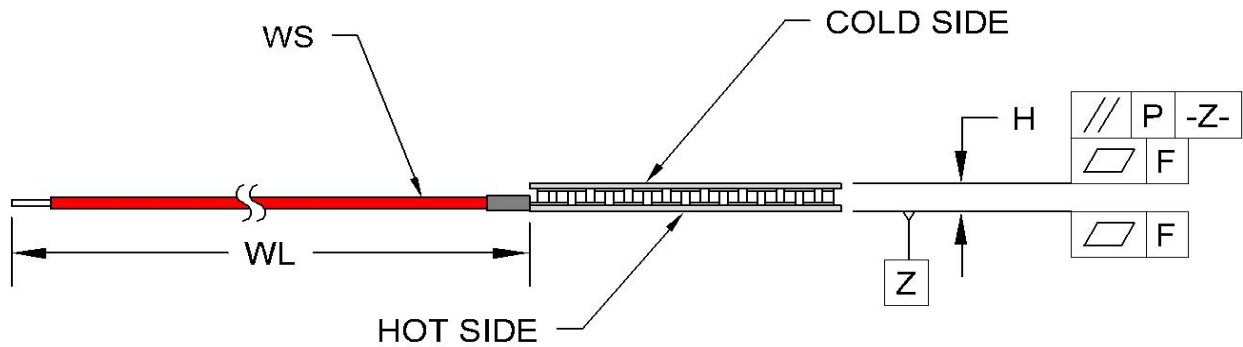
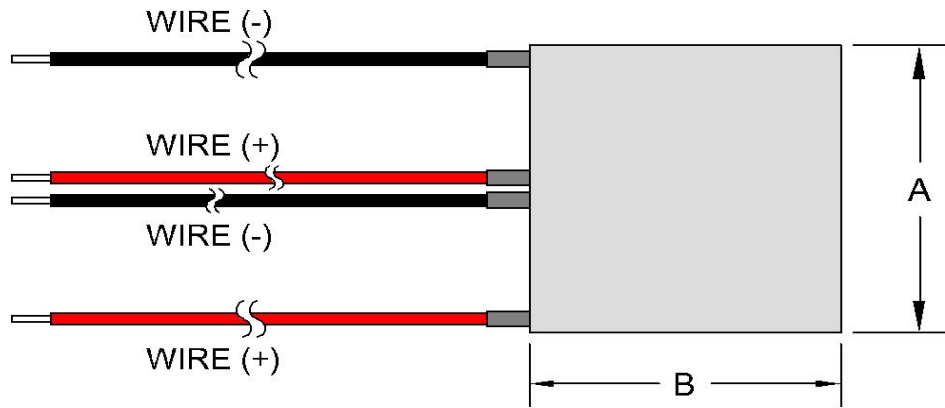


Unpotted SP-254-1.0-2.5 (Series) at a hot-side temperature of 70 °C



Potted SP-254-1.0-2.5 (Series) at a hot-side temperature of 70 °C

SP-254-1.0-2.5 (Parallel) Thermoelectric Module (Peltier Module) Specifications		Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)	Module <i>material</i> 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, <i>Thermoelectric Module Mounting Procedure</i> , parameter definitions, FAQ's, and ordering information posted on our website before purchasing or using this product.
	Vmax (V)	15.9	17.6	
	I _{max} (A)	3.7	3.7	
	Q _{max} (W)	36.6	40.2	
DT _{max} (°C)	70	79		
Operation/storage temperature	-40 °C to +80 °C			



Width, A (mm)	40 +0.5/-0.2
Width, B (mm)	40 +0.5/-0.2
Height, H (mm)	4.8 ±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.

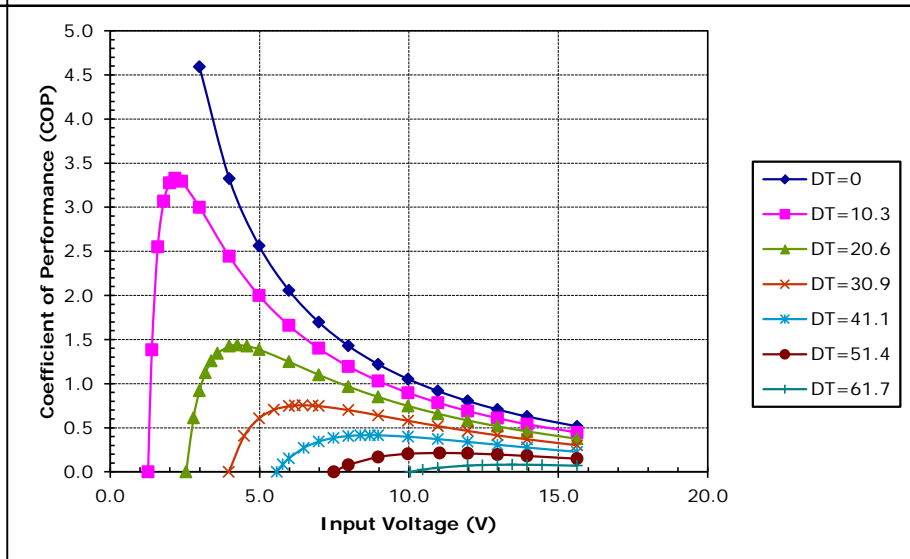
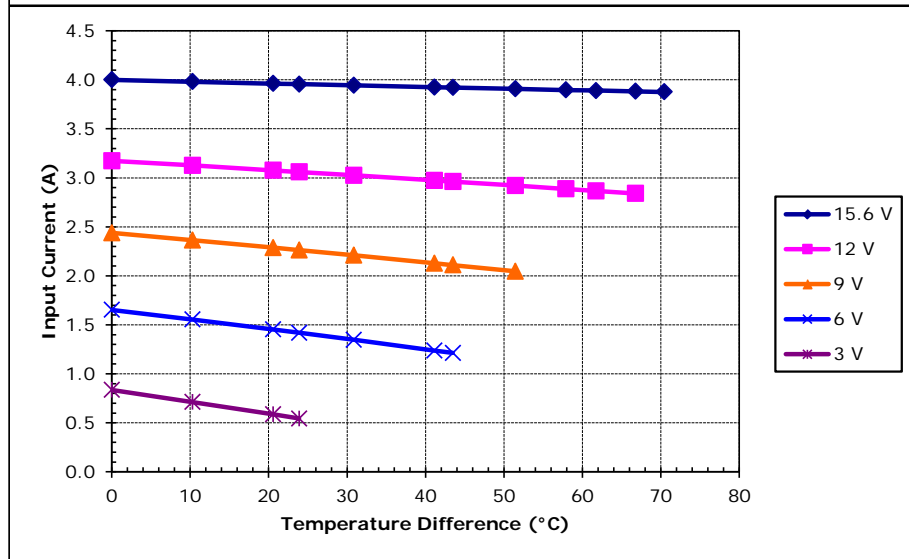
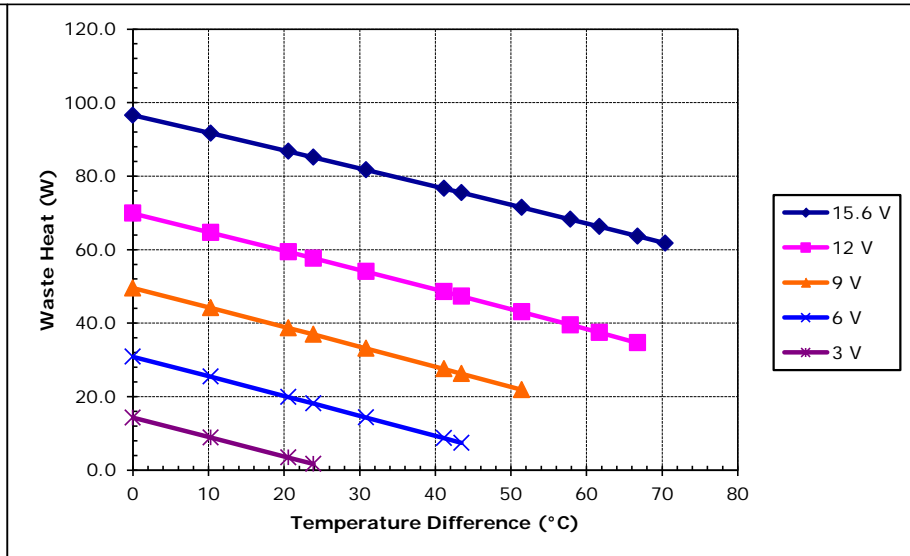
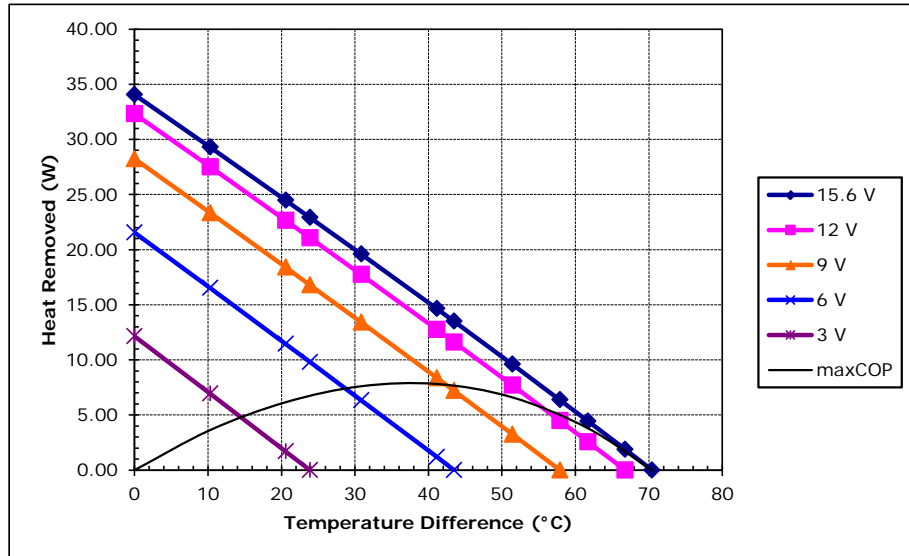
Module can be configured in series mode as well.

Performance graphs include thermal resistance of substrates.

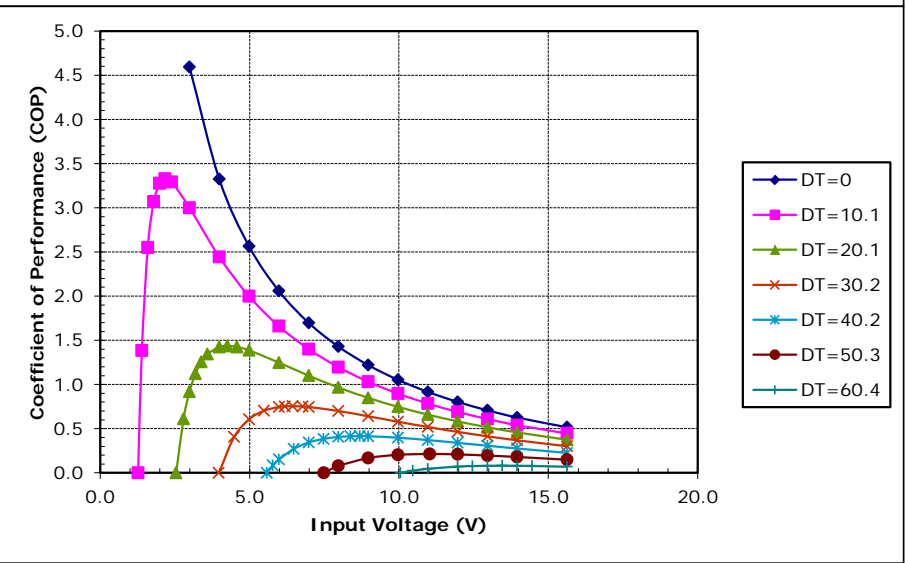
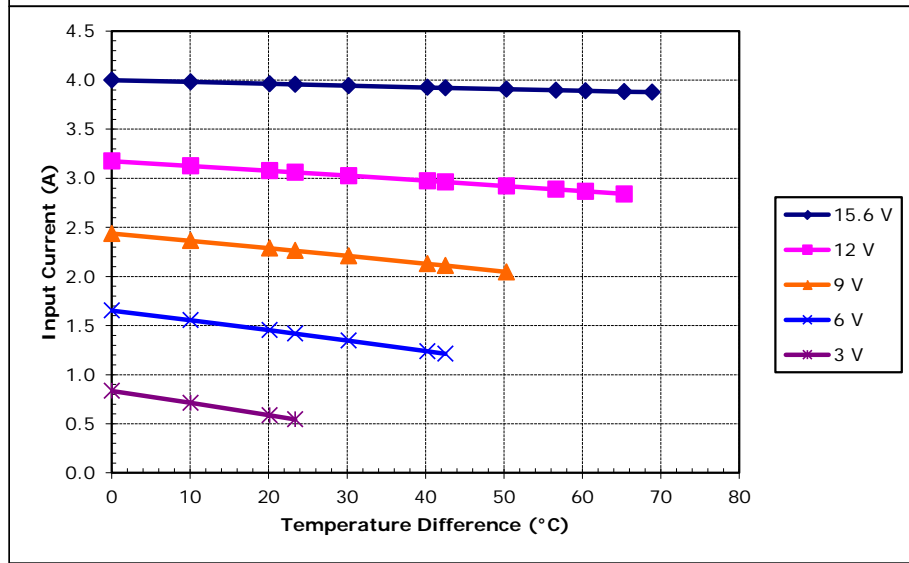
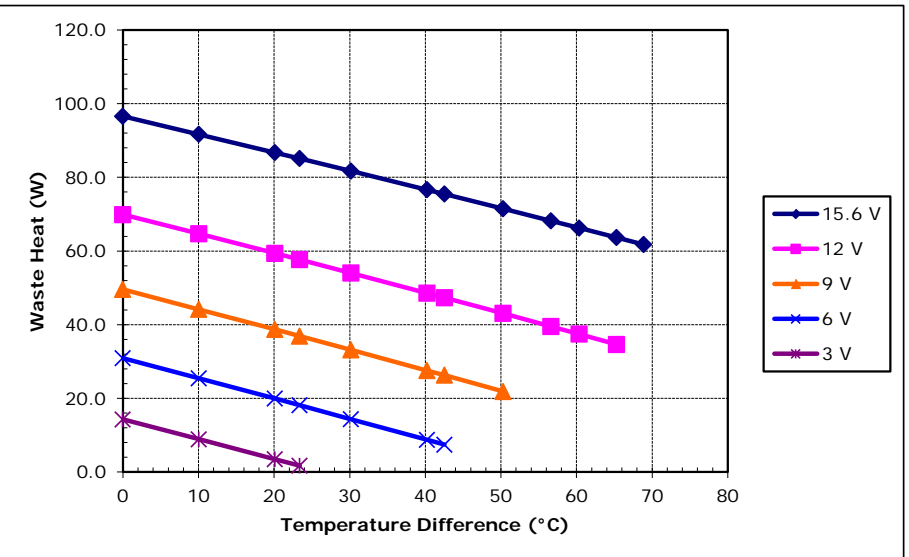
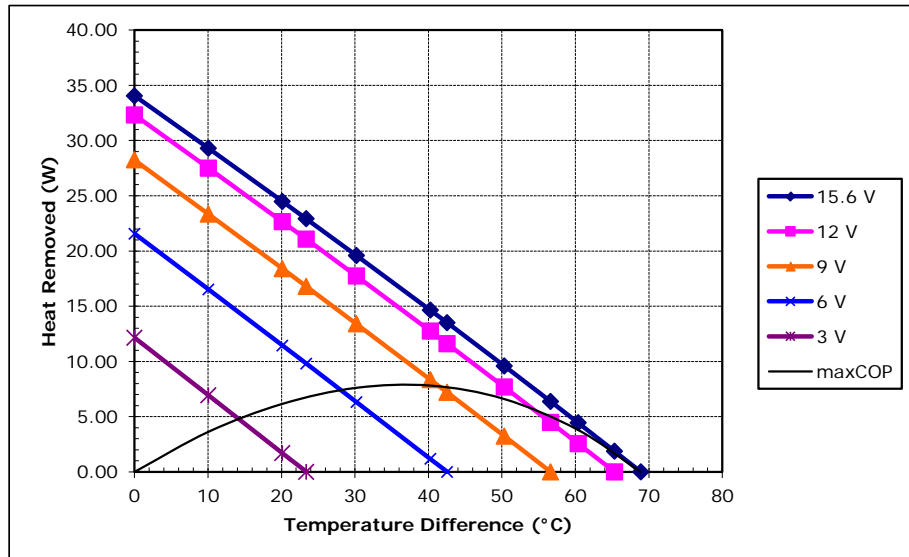
RoHS Compliant



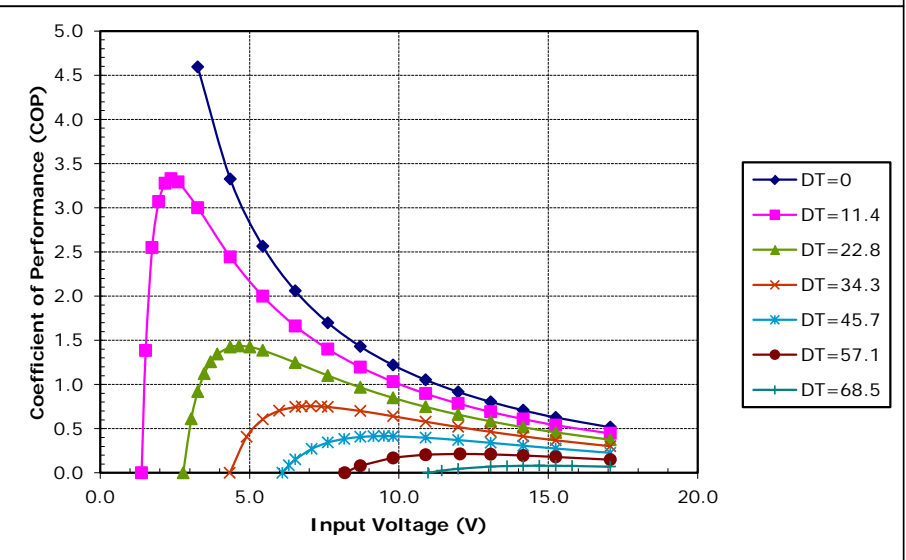
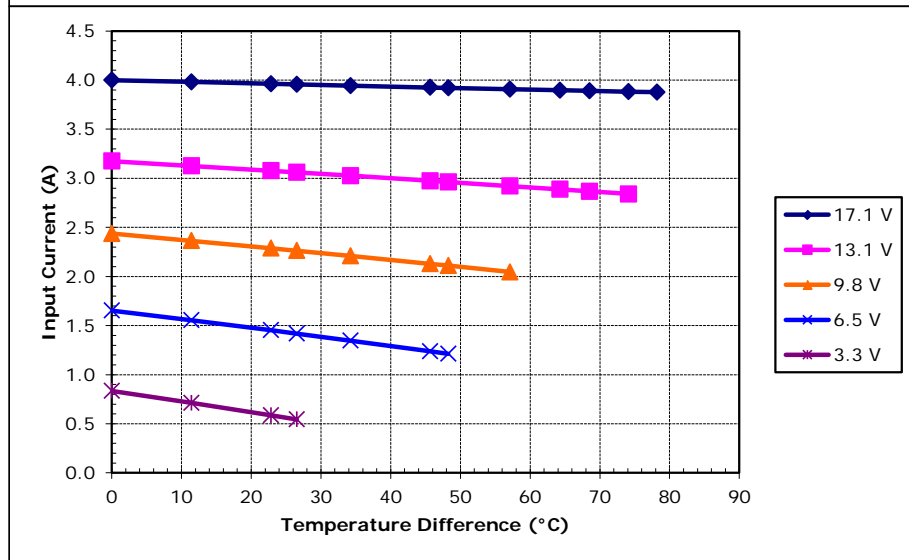
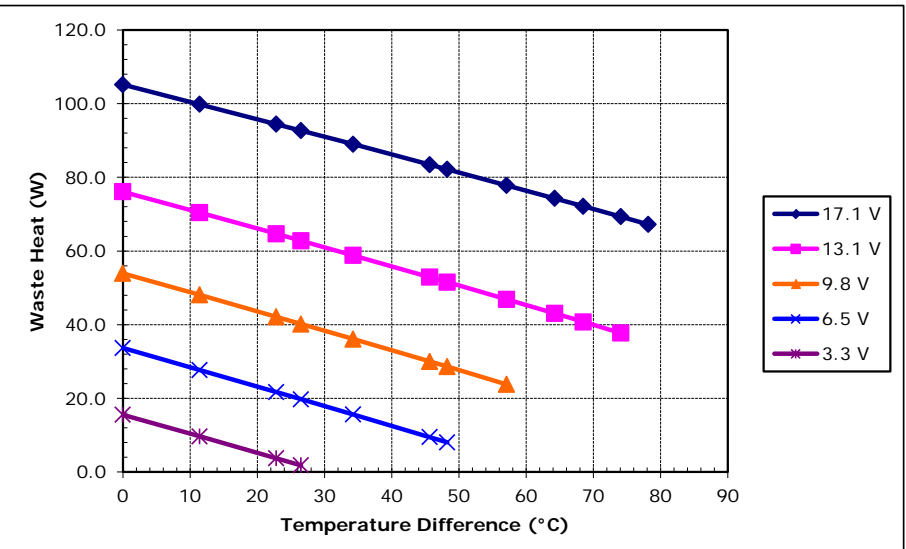
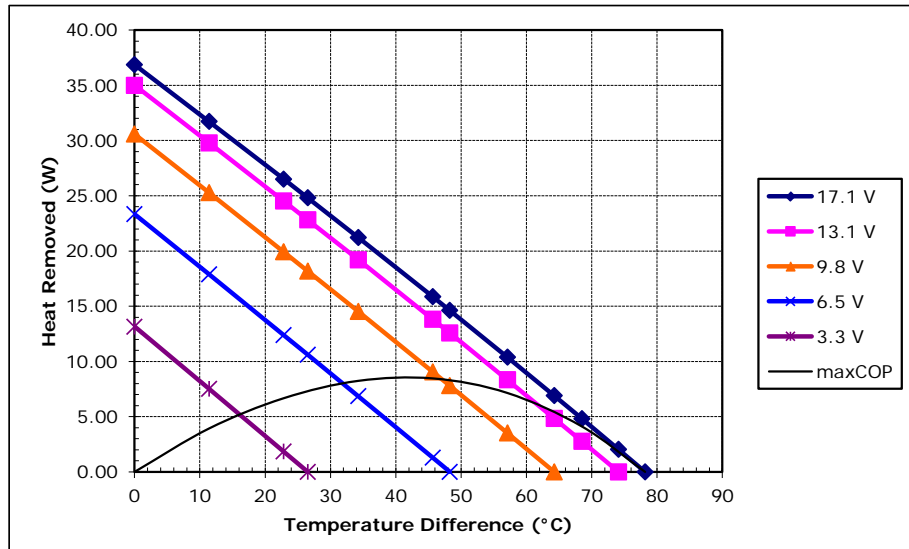
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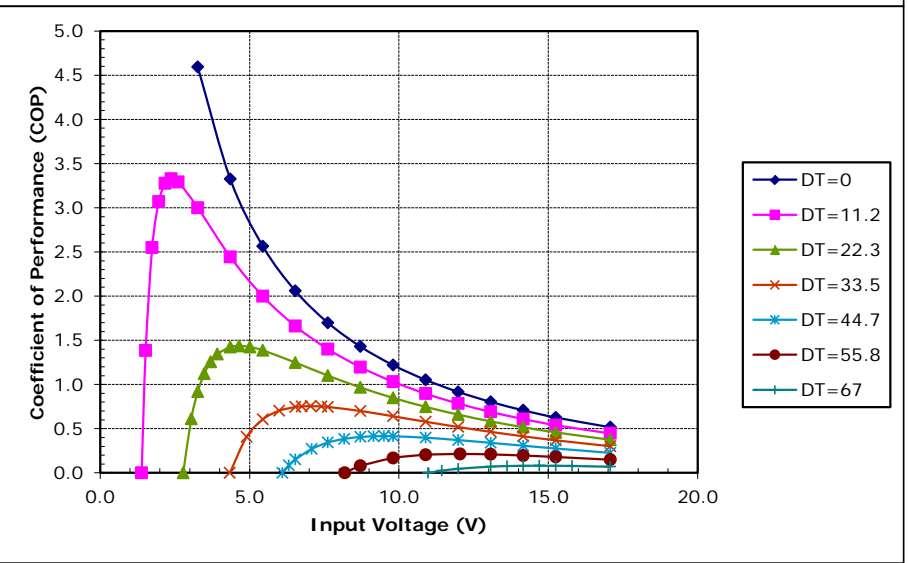
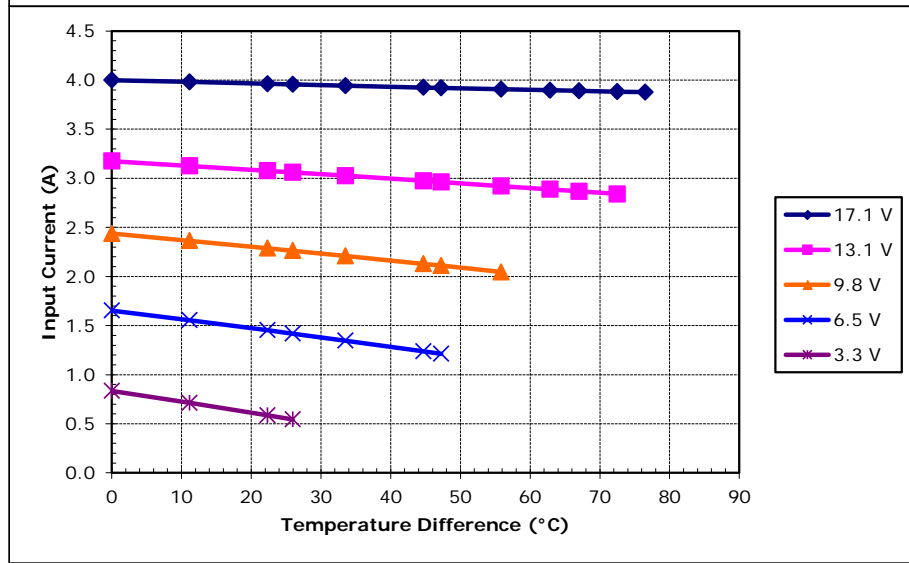
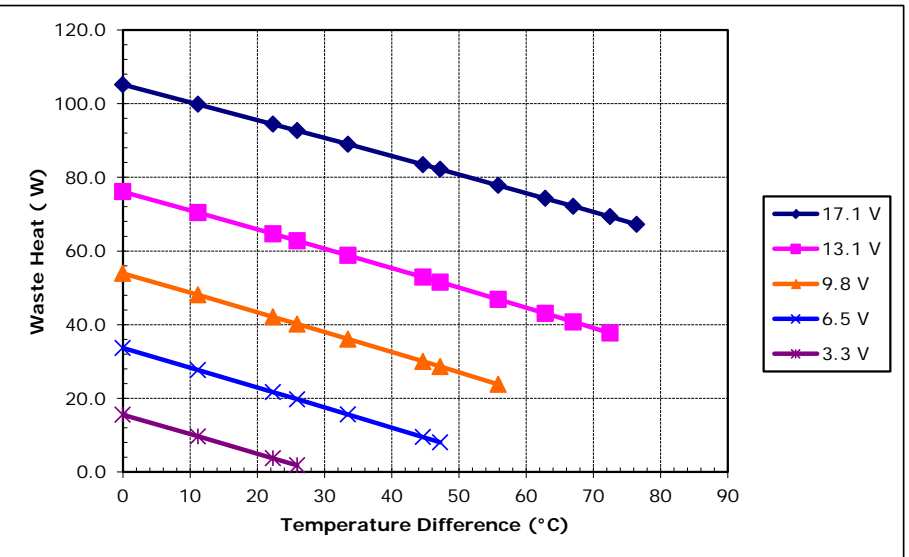
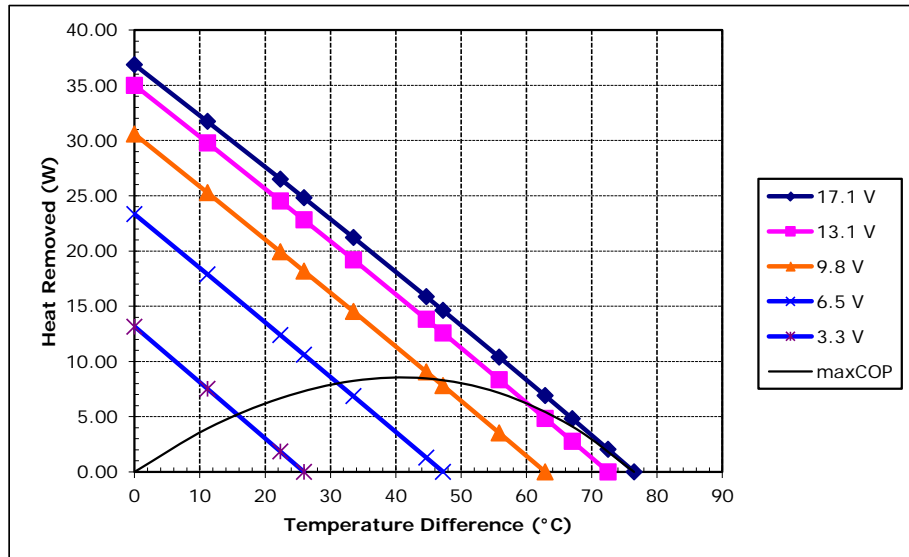
Unpotted SP-254-1.0-2.5 (Parallel) at a hot-side temperature of 30 °C



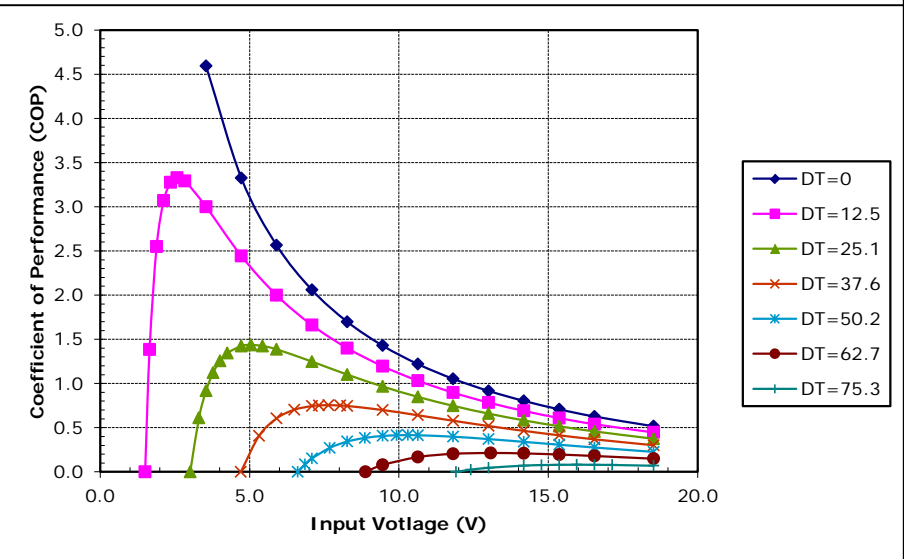
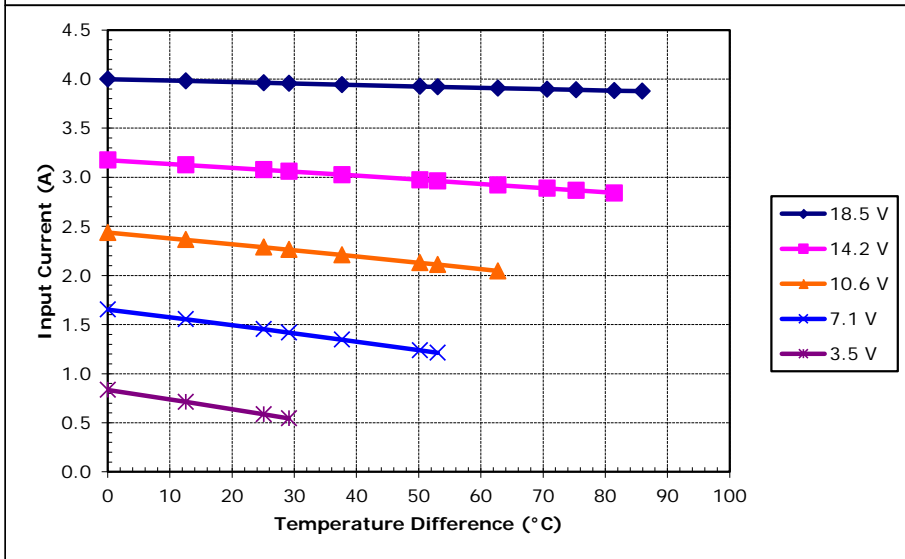
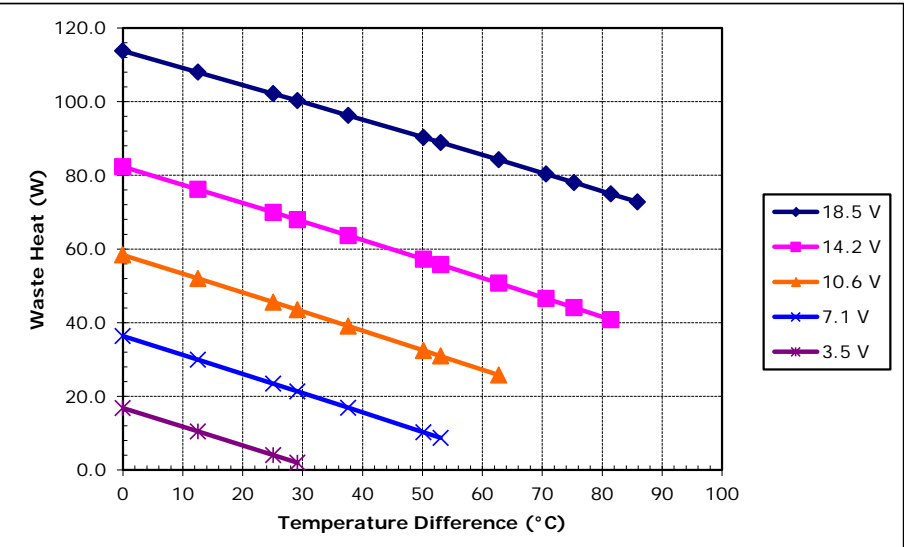
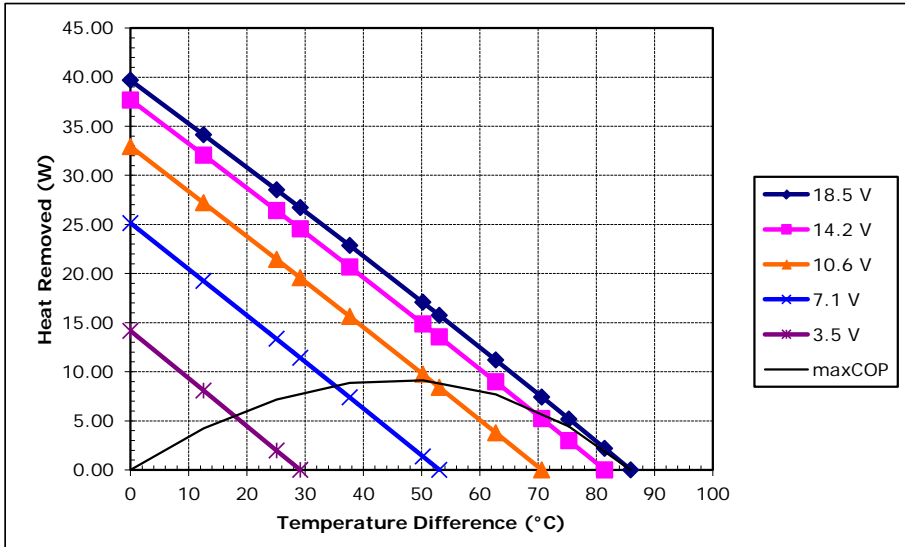
Potted SP-254-1.0-2.5 (Parallel) at a hot-side temperature of 30 °C



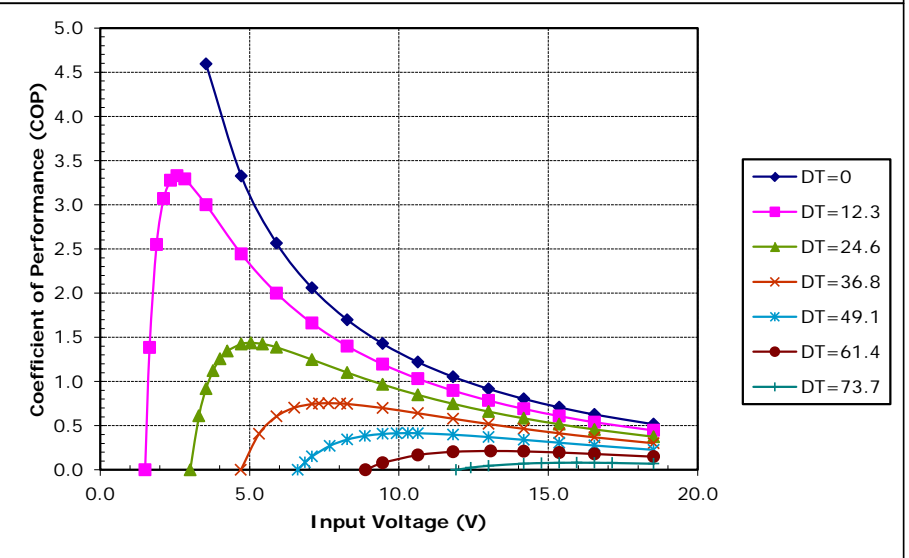
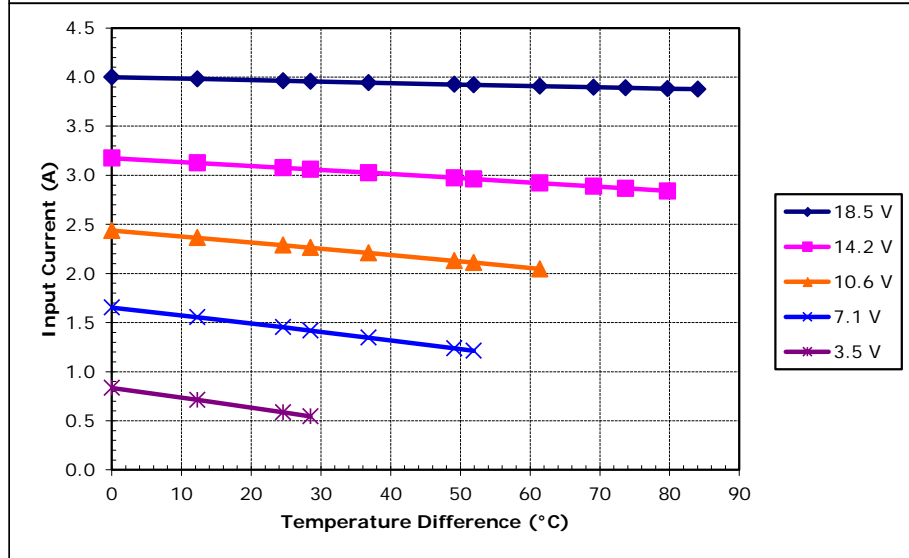
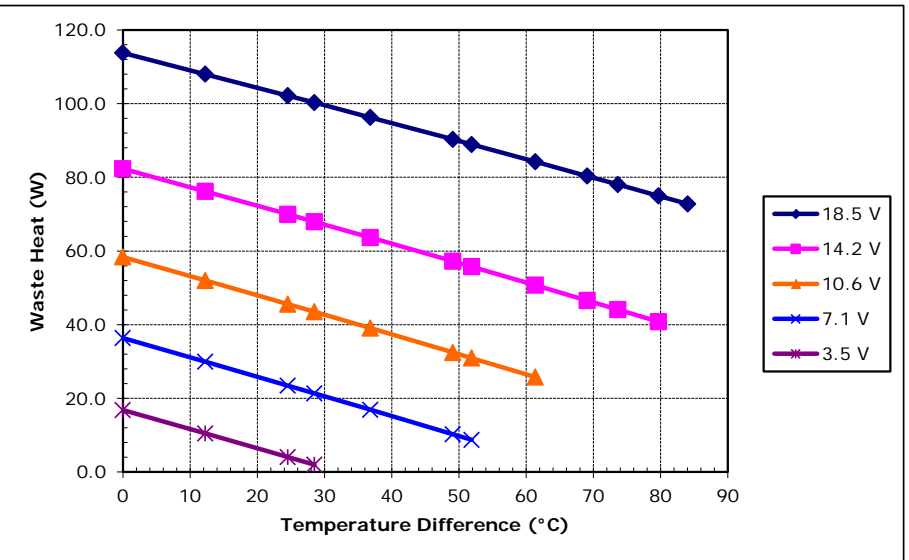
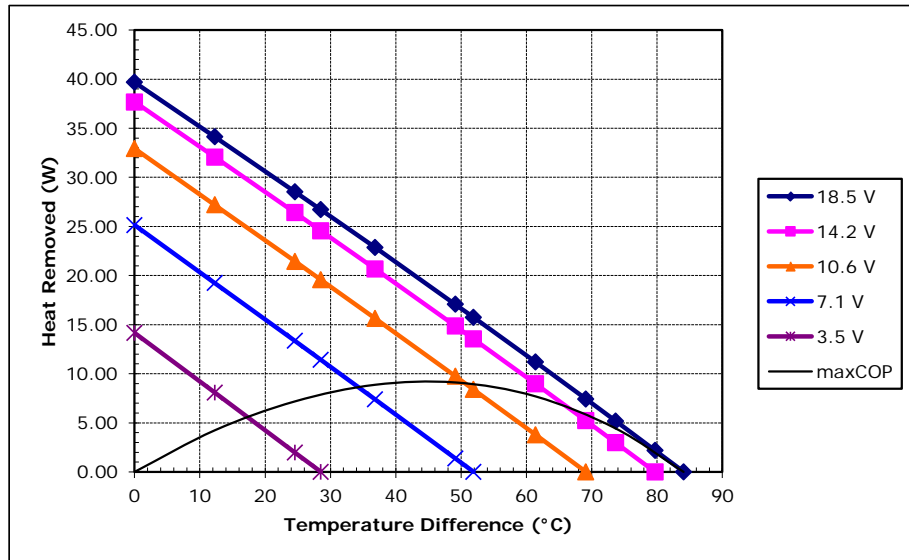
Unpotted SP-254-1.0-2.5 (Parallel) at a hot-side temperature of 50 °C



Potted SP-254-1.0-2.5 (Parallel) at a hot-side temperature of 50 °C



Unpotted SP-254-1.0-2.5 (Parallel) at a hot-side temperature of 70 °C



Potted SP-254-1.0-2.5 (Parallel) at a hot-side temperature of 70 °C