

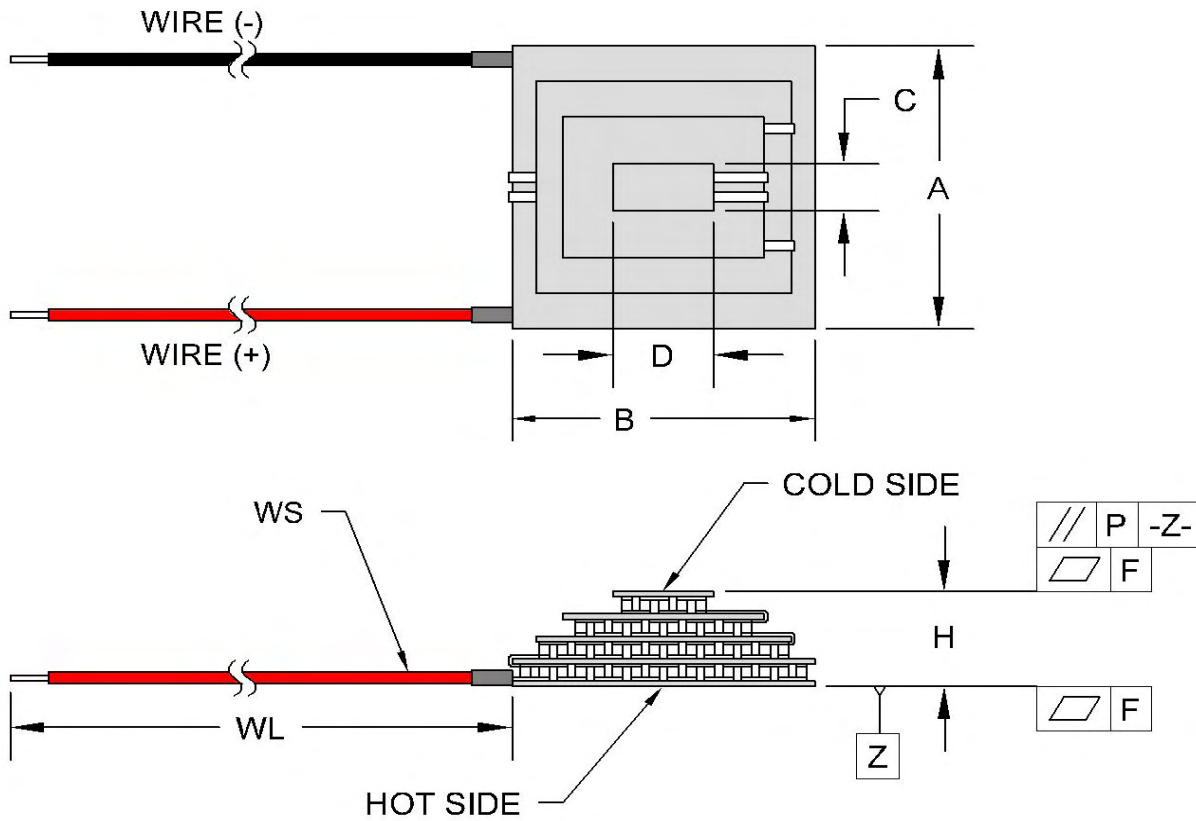
**TE-4-(59-31-11-4)-1.2
Thermoelectric Module
(Peltier Module)
Specifications**

	Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)
Vmax (V)	6.9	7.7
I _{max} (A)	1.0	1.0
Q _{max} (W)	0.5	0.5
DT _{max} (°C)	117	132
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*, FAQ's and ordering information posted on our website before purchasing or using this product.



Width, A (mm)	12 +0.5/-0.2
Width, B (mm)	12 +0.5/-0.2
Width, C (mm)	2 +0.5/-0.2
Width, D (mm)	4 +0.5/-0.2
Height, H (mm)	10.65 ±0.35
Flatness, F (mm)	0.1
Parallelism, P (mm)	0.15
Wire Size, WS (mm ²)	0.2
Wire Length, WL (mm)	50

Optional Features and Notes:

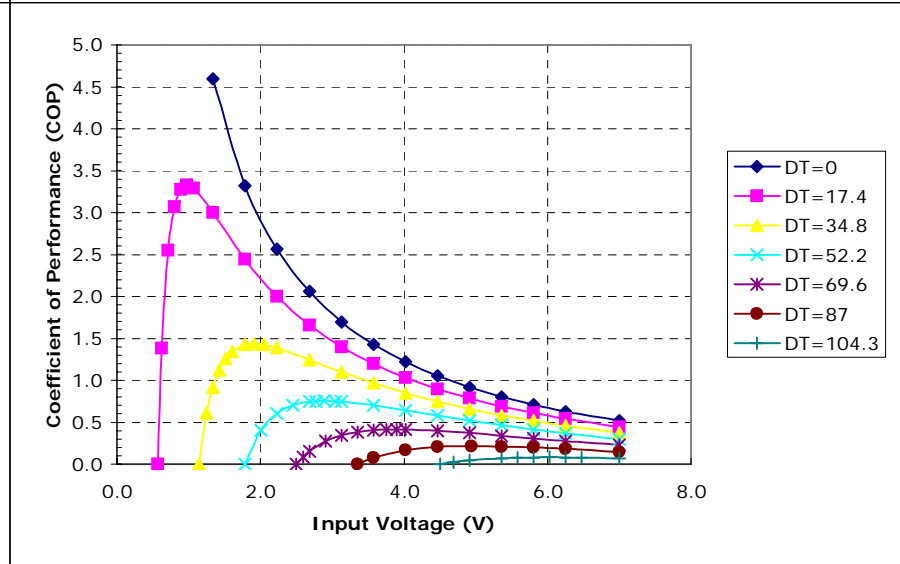
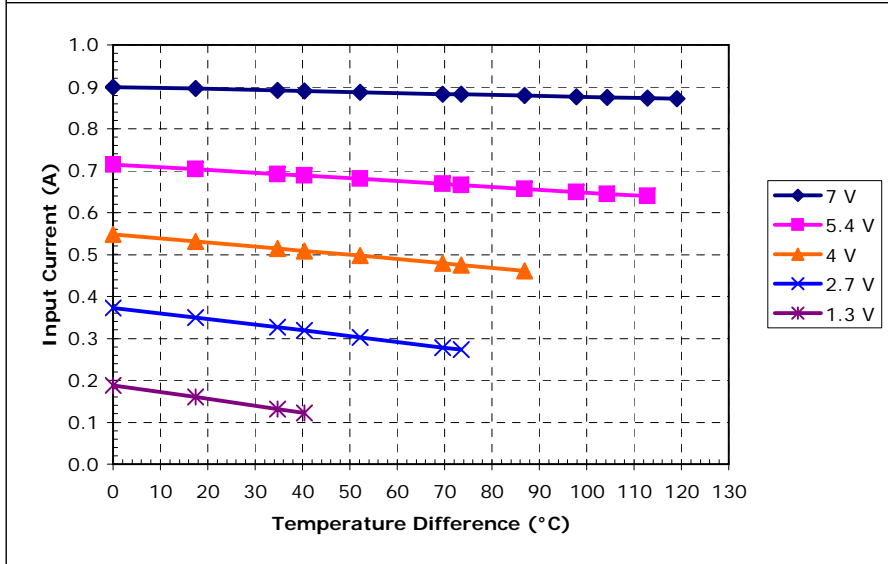
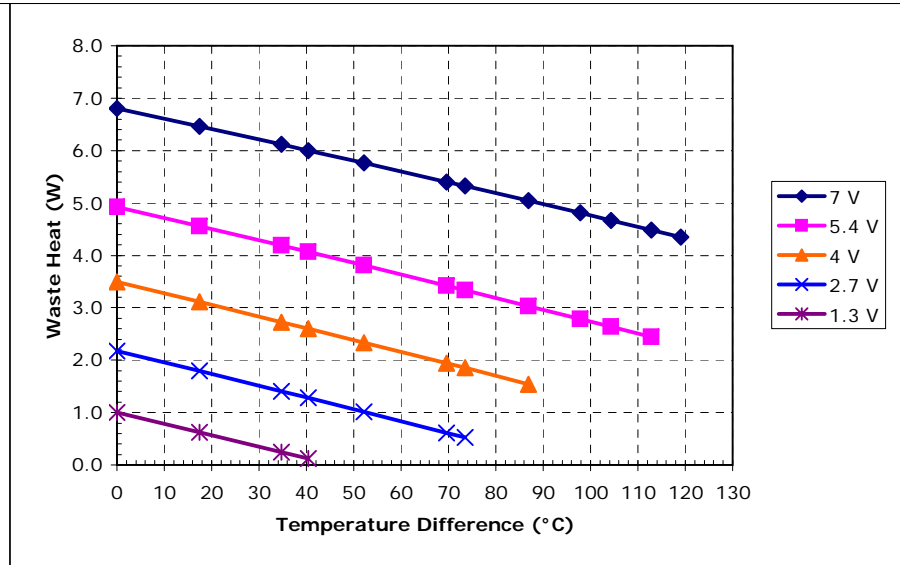
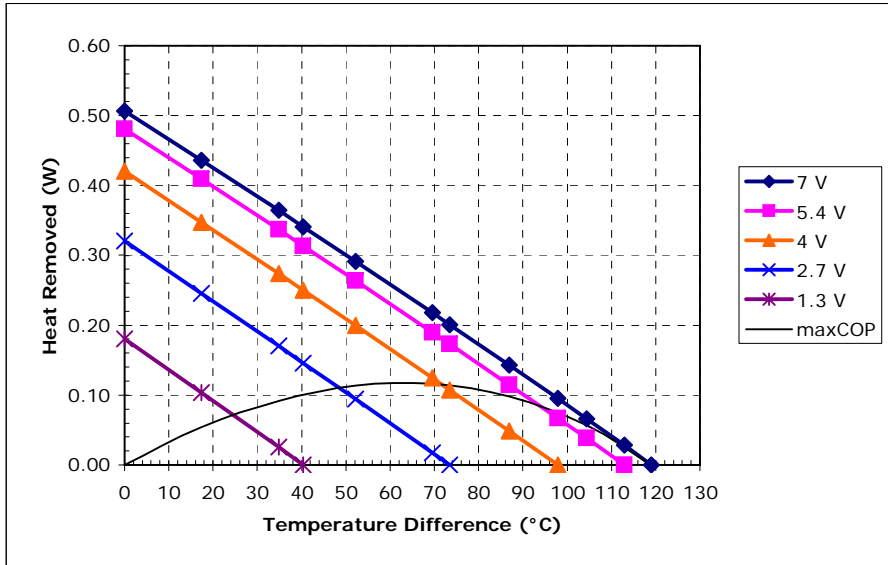
Add "P" to part number for sealing module with epoxy potting.

Performance graphs include thermal resistance of substrates.

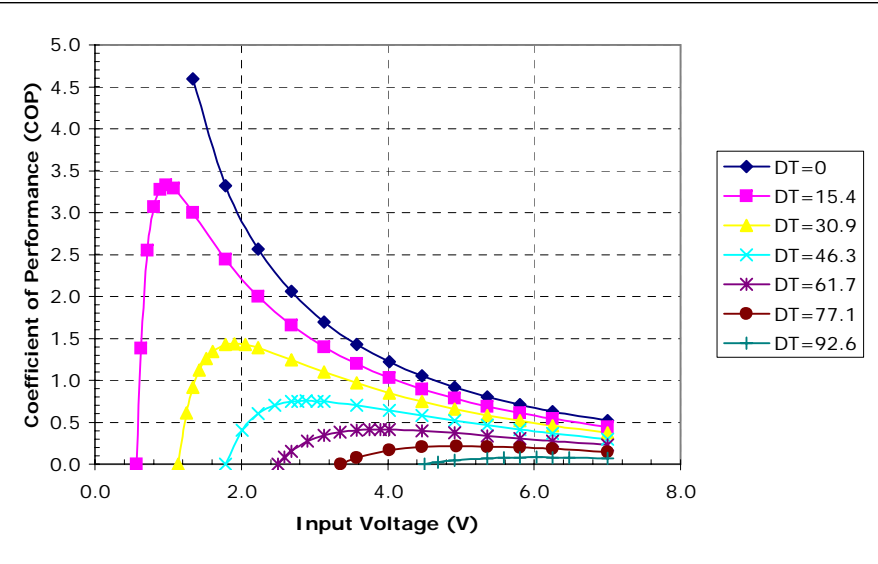
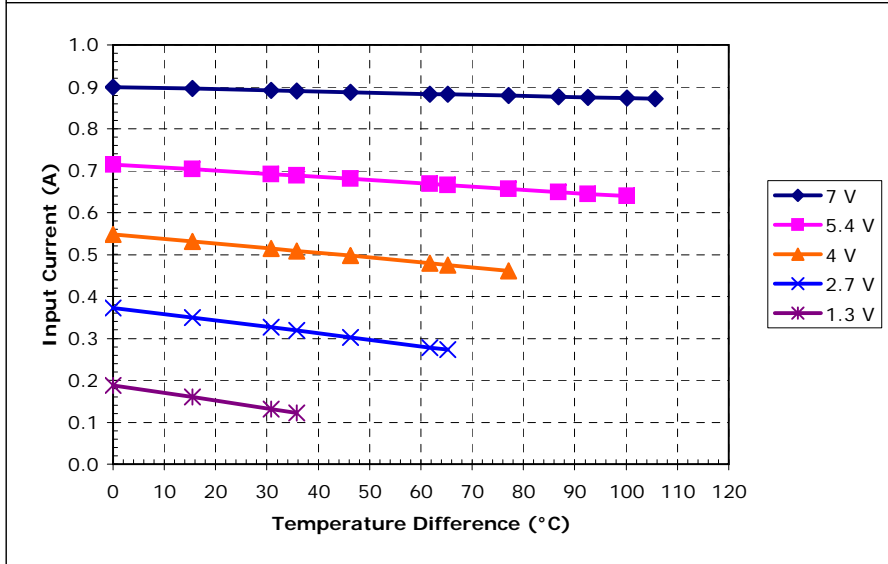
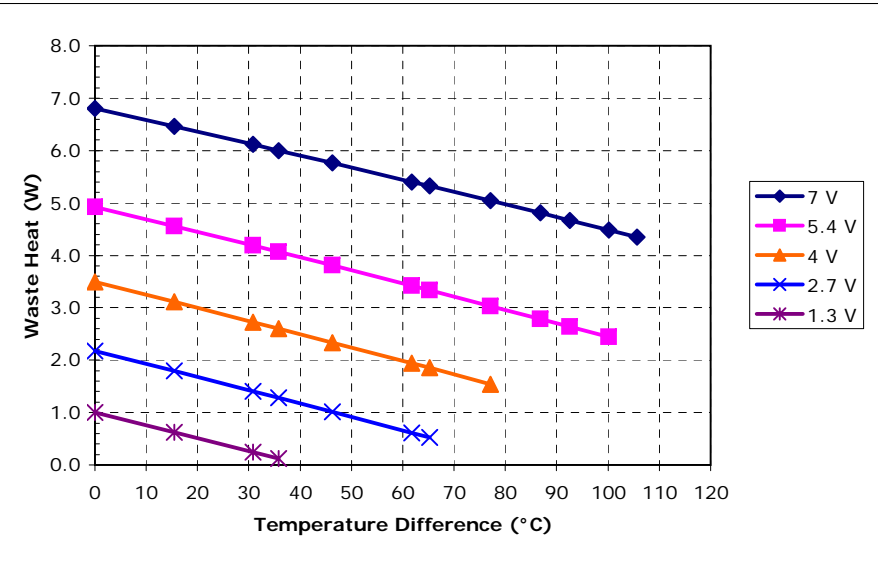
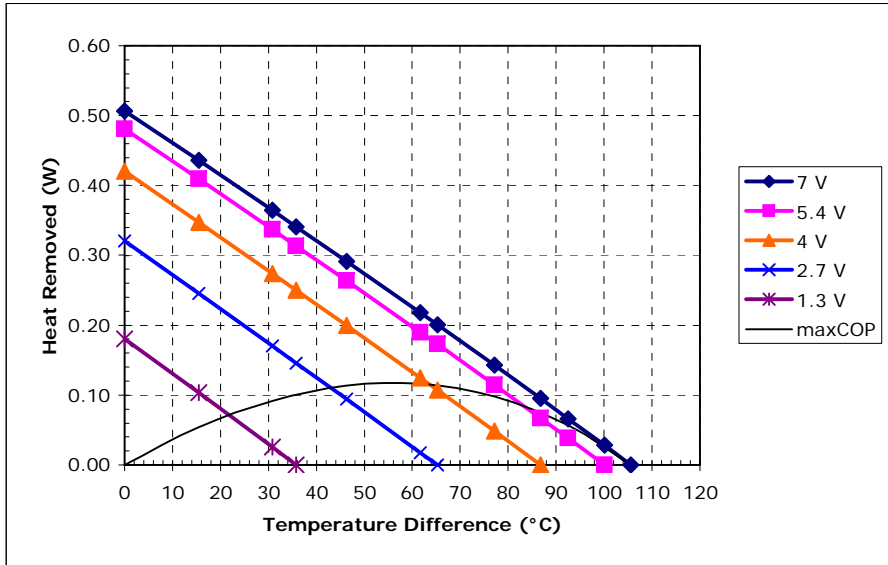
RoHS Compliant
Directive 202/95/EC



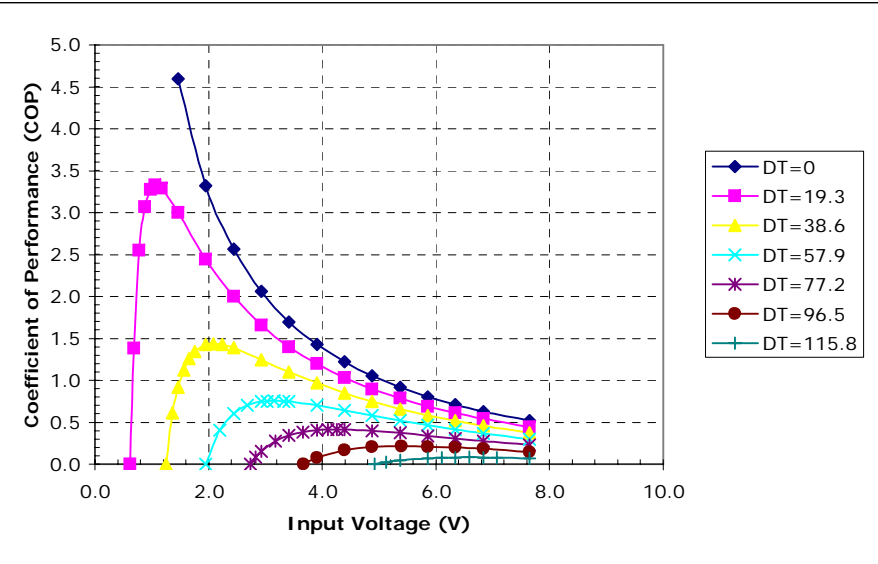
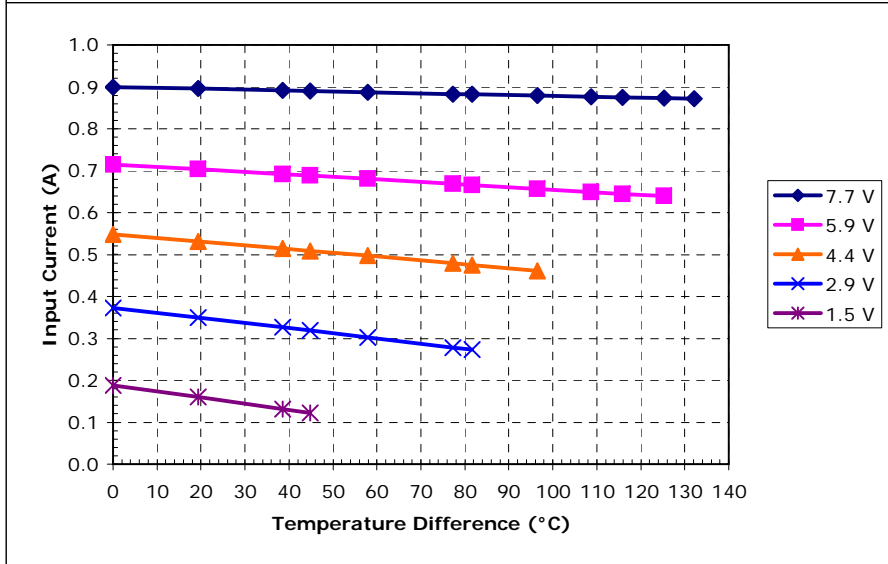
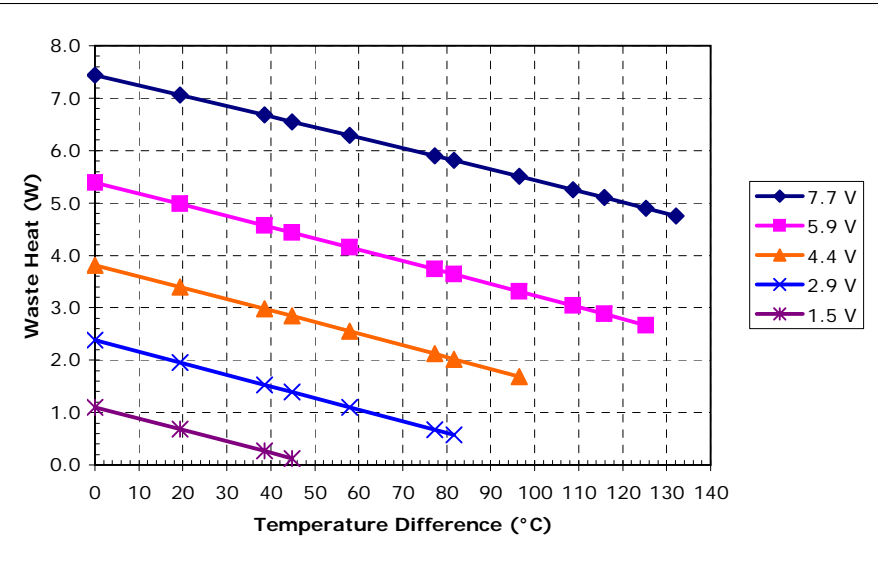
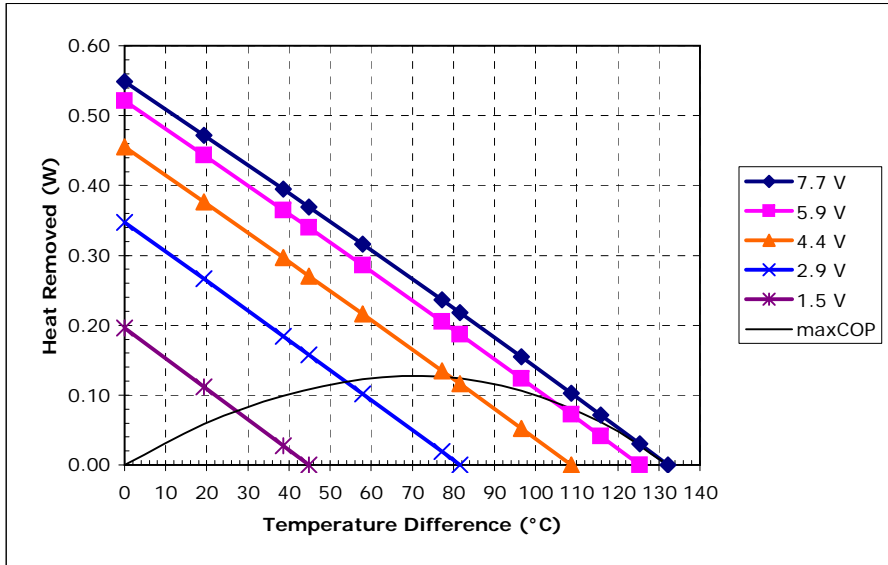
1590 Keane Drive, Traverse City, MI, 49686-8257 USA
PH: 231-929-3966 FAX: 231-929-4163 email: cool@totech.com



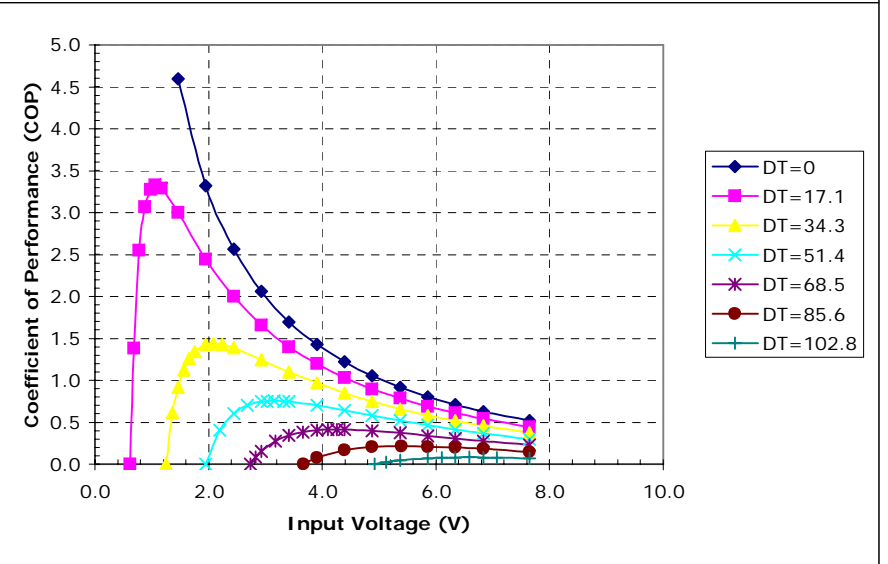
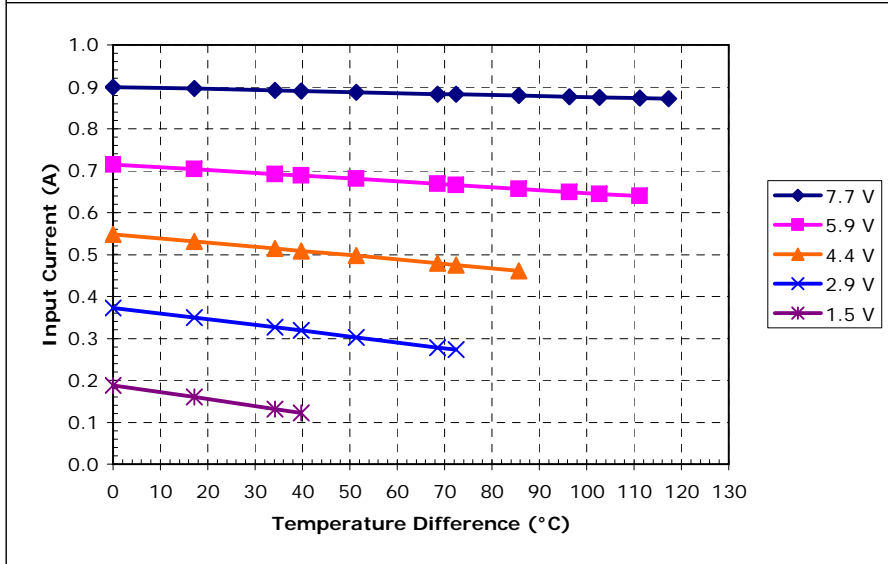
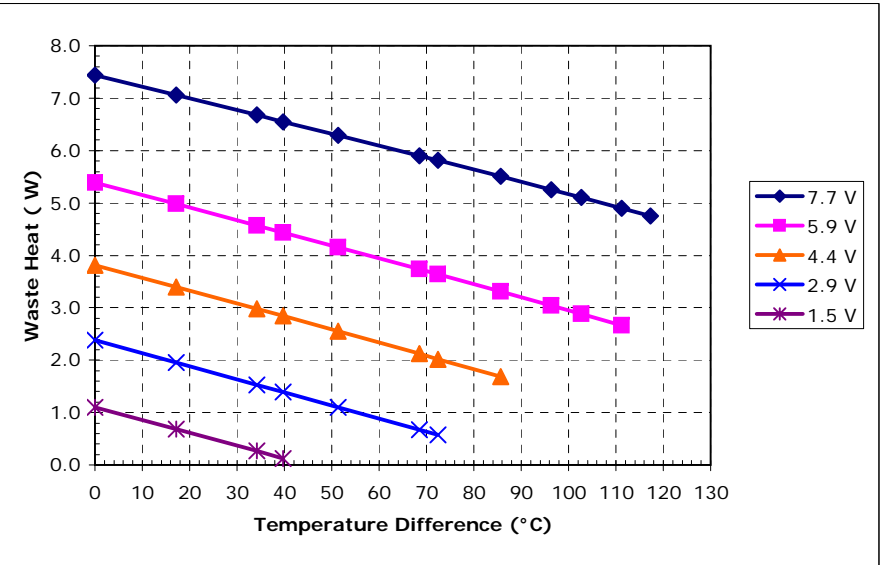
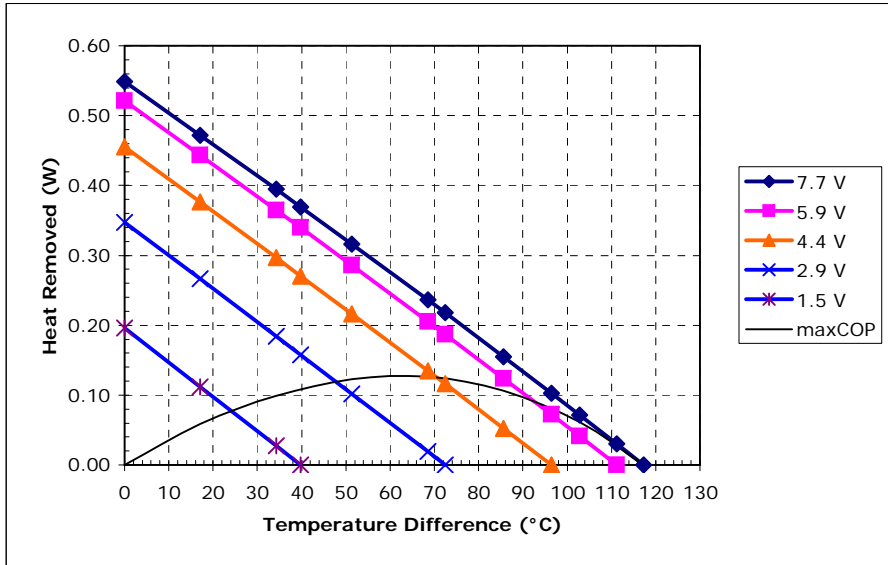
Unpotted TE-4-(59-31-11-4)-1.2 at a hot-side temperature of 30 °C



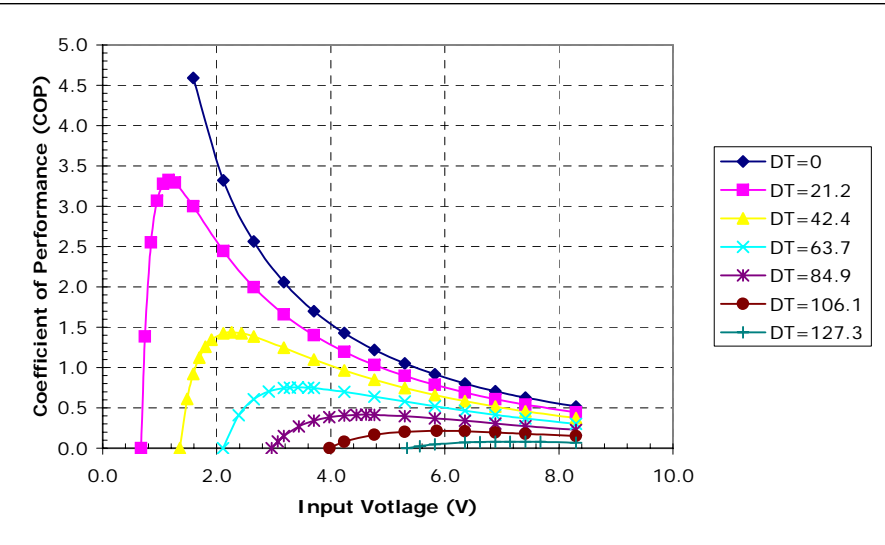
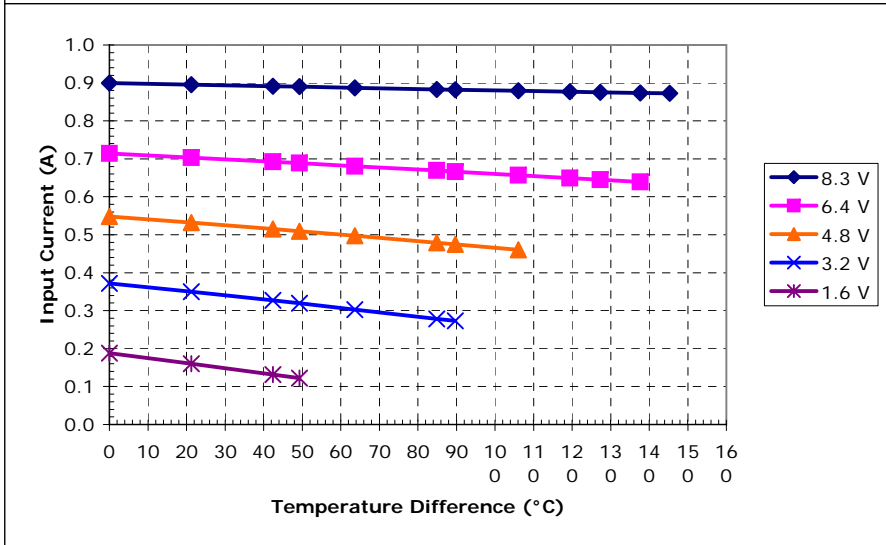
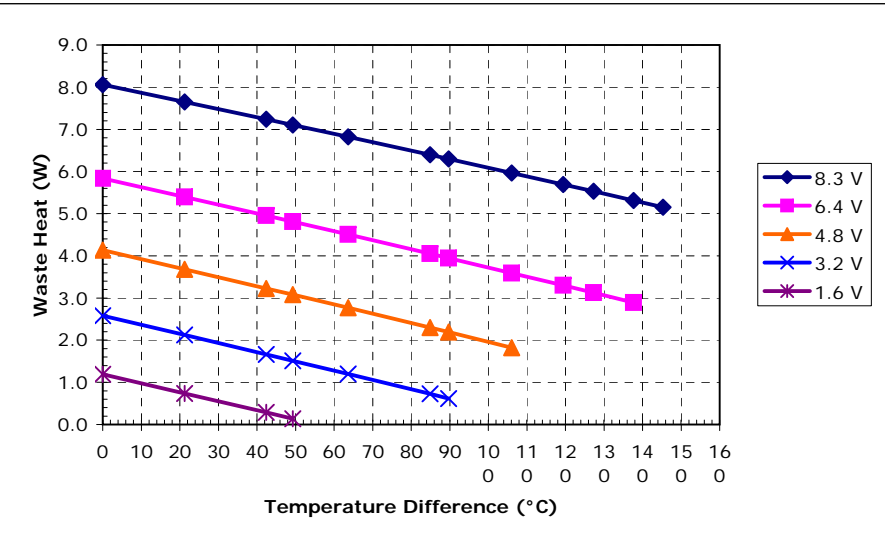
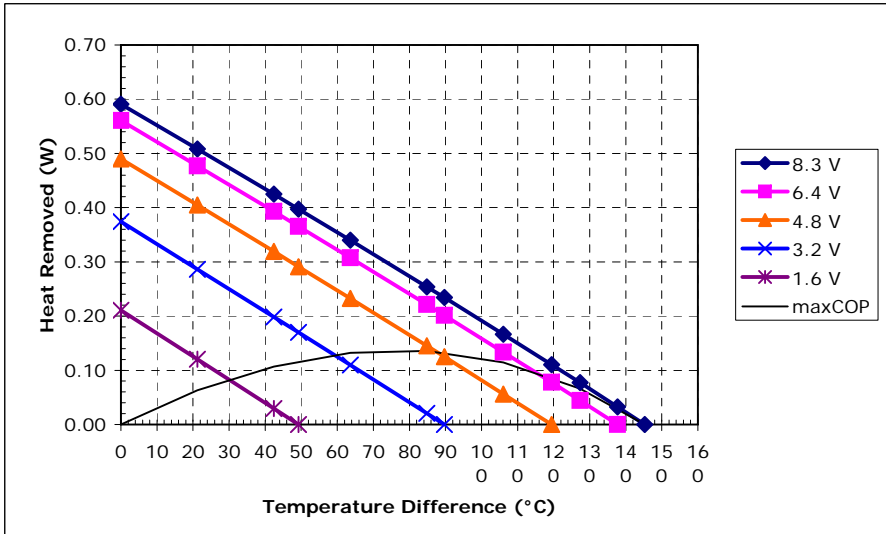
Potted TE-4-(59-31-11-4)-1.2 at a hot-side temperature of 30 °C



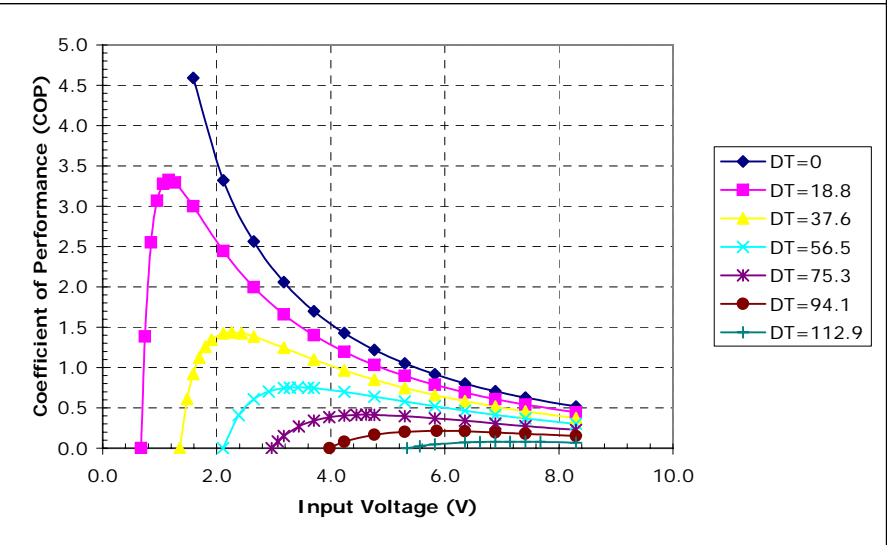
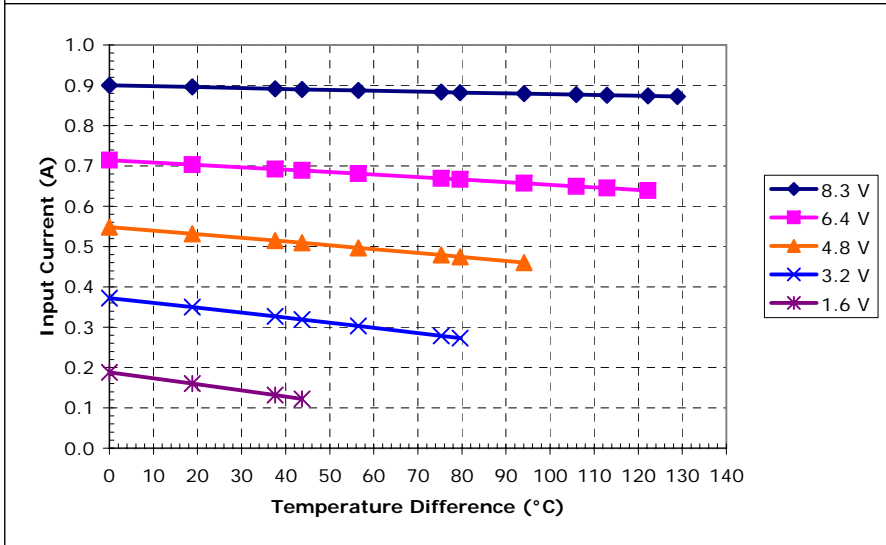
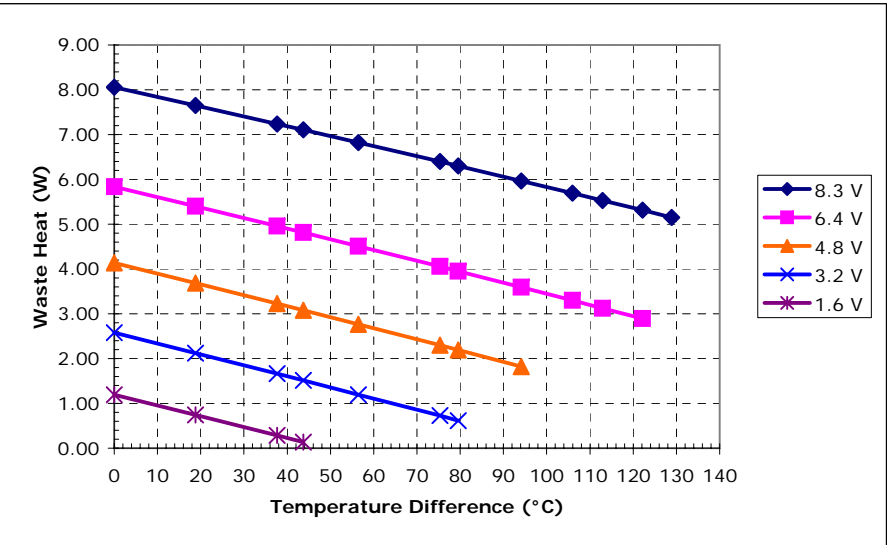
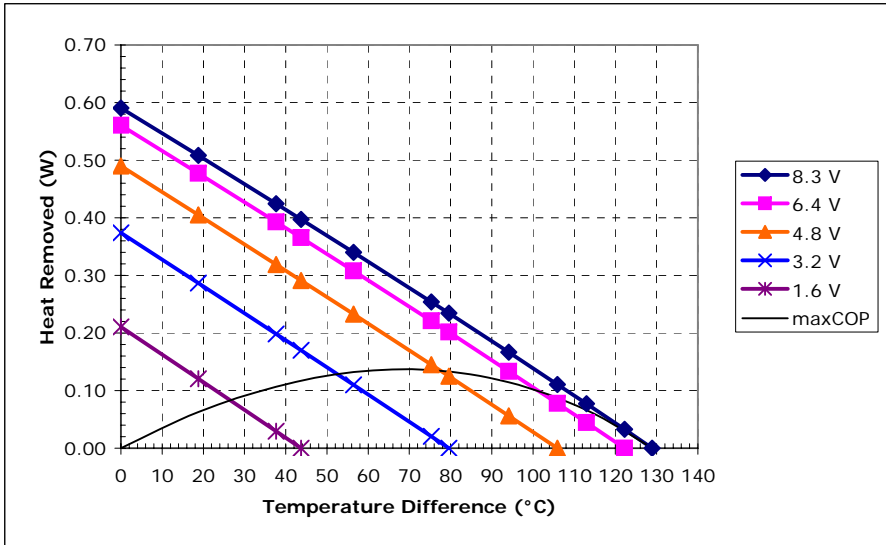
Unpotted TE-4-(59-31-11-4)-1.2 at a hot-side temperature of 50 °C



Potted TE-4-(59-31-11-4)-1.2 at a hot-side temperature of 50 °C



Unpotted TE-4-(59-31-11-4)-1.2 at a hot-side temperature of 70 °C



Potted TE-4-(59-31-11-4)-1.2 at a hot-side temperature of 70 °C