

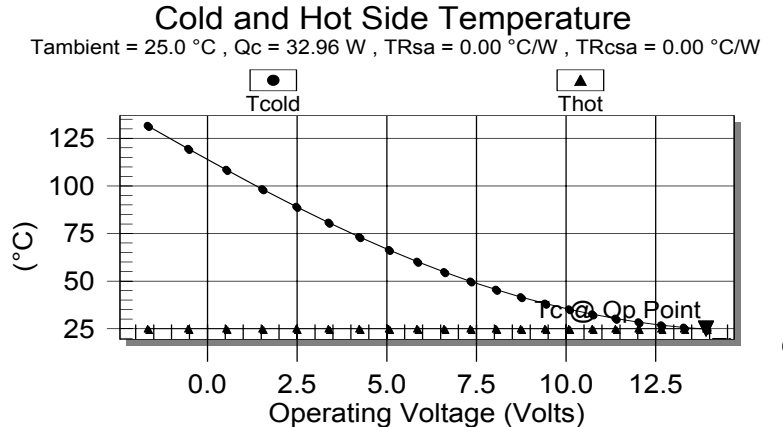
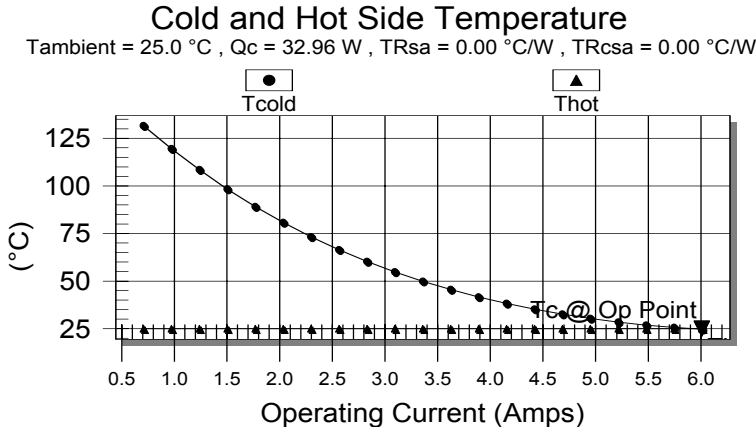
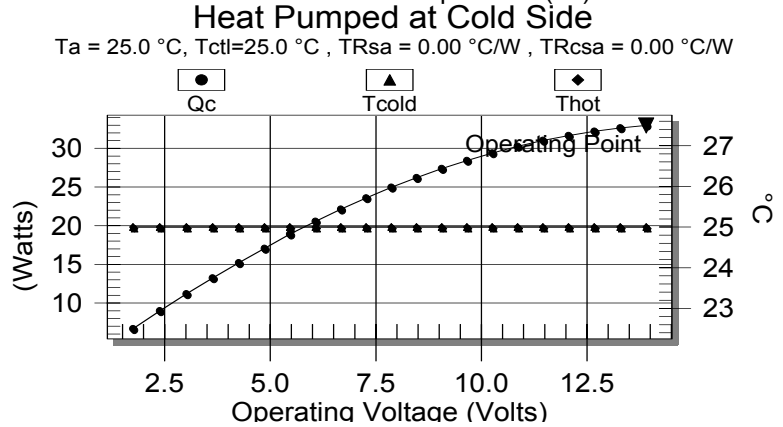
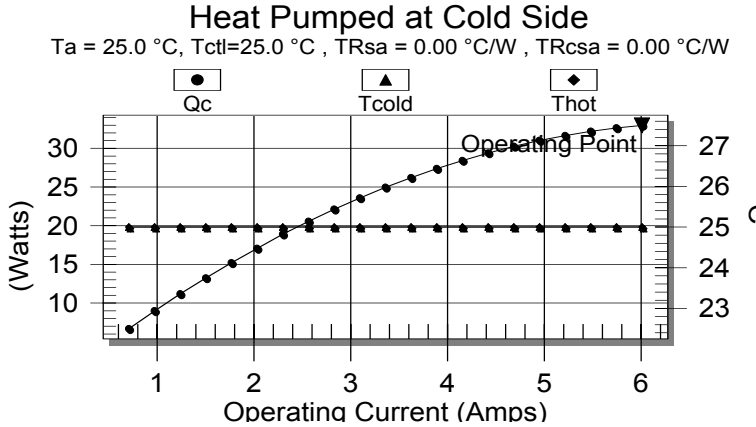
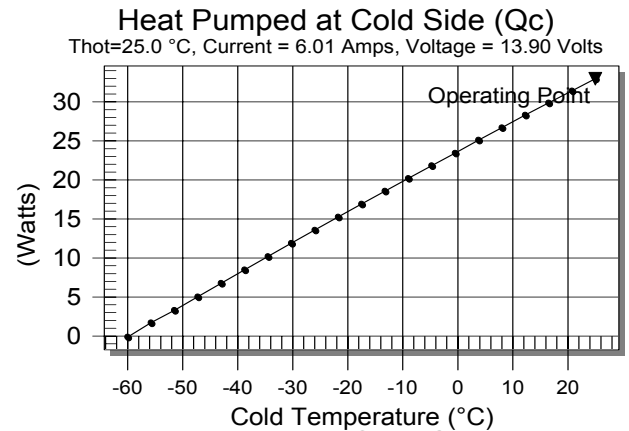
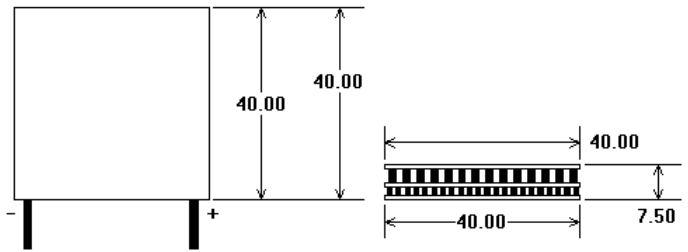
Thermoelectric Cooling

2 SC 055 045-127-63 L

Cooling Requirements	Values
Ambient Temperature (T_a) ($^{\circ}\text{C}$)	25
Hot Side Thermal Resistance ($^{\circ}\text{C}/\text{W}$)	0.0
Control Thermal Resistance ($^{\circ}\text{C}/\text{W}$)	0.0
Control Temperature (T_{ctl}) ($^{\circ}\text{C}$)	25
Voltage (Volts)	13.90
Current (Amps)	6.01

Thermoelectric Parameters	Values
Geometry Factor (cm)	0.171
Number of Couples	190
(T_c) TEC Cold Temp ($^{\circ}\text{C}$)	25.00
(T_h) TEC Hot Temp ($^{\circ}\text{C}$)	25.00
(Q_c) Heat Pumped at Cold Surface (W)	32.96
COP	0.39
Optimum COP	5.40
(P_{in}) Power Supply (W)	83.52
(Q_h) Total Hot Side Heat Dissipated (W)	116.48
DT Max ($^{\circ}\text{C}$) (@ $Q_c=0$)	85.00
Q_{max} (W) DT=0	32.96

Part #: 2 SC 055 045-127-63 L



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