

## TEC Series

Wakefield-Vette's **Peltier, thermoelectric coolers** can meet the requirement of higher current and large cooling. It is often applied to experimental, scientific and biomedical instruments, laboratory equipment, industry and electrical equipment and consumables. The ambient temperature can arrive 100C, long-term working temperature is recommended to be below 90C.



### Features:

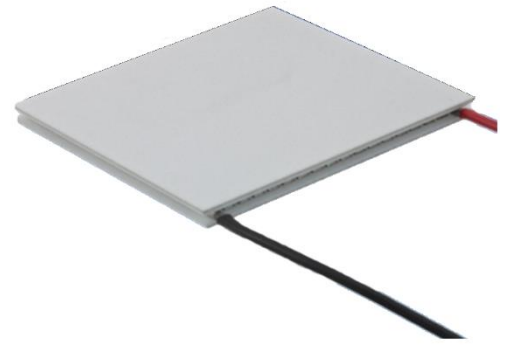
- All products are RoHS and REACH compliant, SGS ISO9001 verified
- Thermoelectric module material are UL certification
- Standard Wire is 150mm
- Thermoelectric module moisture protection standard is sealed by white RTV silicone, but also support select other moisture protection style, Such as translucent silicone, black epoxy.
- Thermoelectric module flatness tolerance support select 0.2mm, 0.13mm, 0.1mm.

WKV Part Number	Description	Current max (A)	Q max (W) @ 27°C	V max (V) @ 27°C	ΔT max (°C) @ 27°C	# of Couples	Outline (L/W/)	Height (mm)
TEC-30-40-127	PELTIER TEC 30X30 4MM 2.5A	2.5	21.4	15.4	68	127	30x30	4
TEC-30-32-127	PELTIER TEC 30X30 3.2MM 3.9A	3.9	33.4	15.4	68	127	30x30	3.2
TEC-40-39-127	PELTIER TEC 40X40 4.7MM 3.9A	3.9	33.4	15.4	68	127	40x40	3.9
TEC-40-33-127	PELTIER TEC 40X40 3.3MM 8.5A	8.5	72	15.4	68	127	40x40	3.3
TEC-30-36-127	PELTIER TEC 30X30 3.6MM 3.0A	3.0	25.7	15.4	68	127	30x30	3.6
TEC-30-39-71	PELTIER TEC 30X30 4.7MM 3.9A	3.9	18.7	8.6	68	71	30x30	3.9
TEC-30-36-71	PELTIER TEC 30X30 3.8MM 6.0A	6.0	28.7	8.6	68	71	30x30	3.6
TEC-40-36-127	PELTIER TEC 40X40 3.8MM 6.0A	6.0	51.4	15.4	68	127	40x40	3.6
TEC-20-33-31	PELTIER TEC 20X20 3.3MM 8.5A	8.5	16.8	3.75	68	31	20x20	3.3
TEC-30-33-71	PELTIER TEC 30X30 3.3MM 8.5A	8.5	72	15.4	68	71	30x30	3.3

# Thermoelectric Cooler Performance Specifications



## TEC-40-39-127

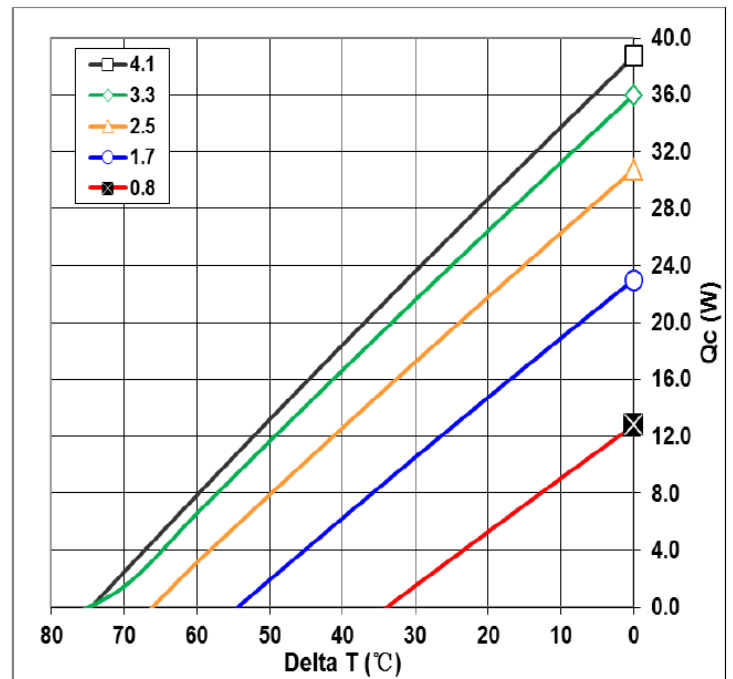
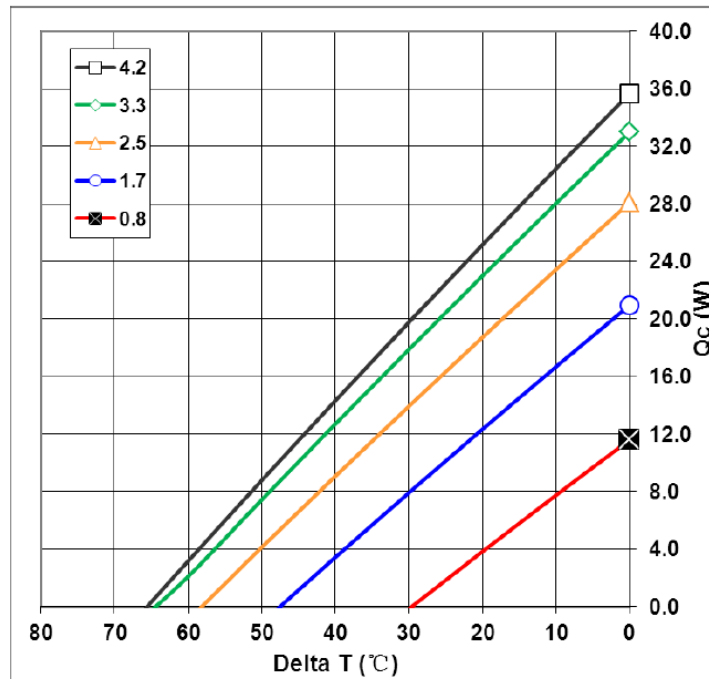
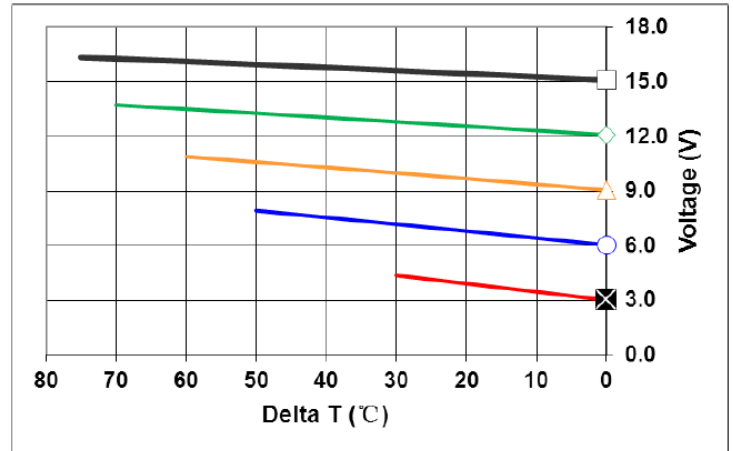
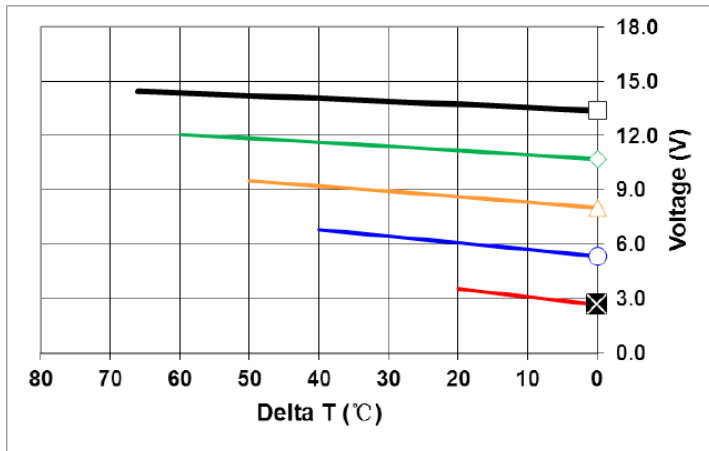


Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	33.4	39
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	4.0	4.0
V <sub>max</sub> (Volts)	15.4	16.4
Module Resistance(Ohms)	3.22	3.63

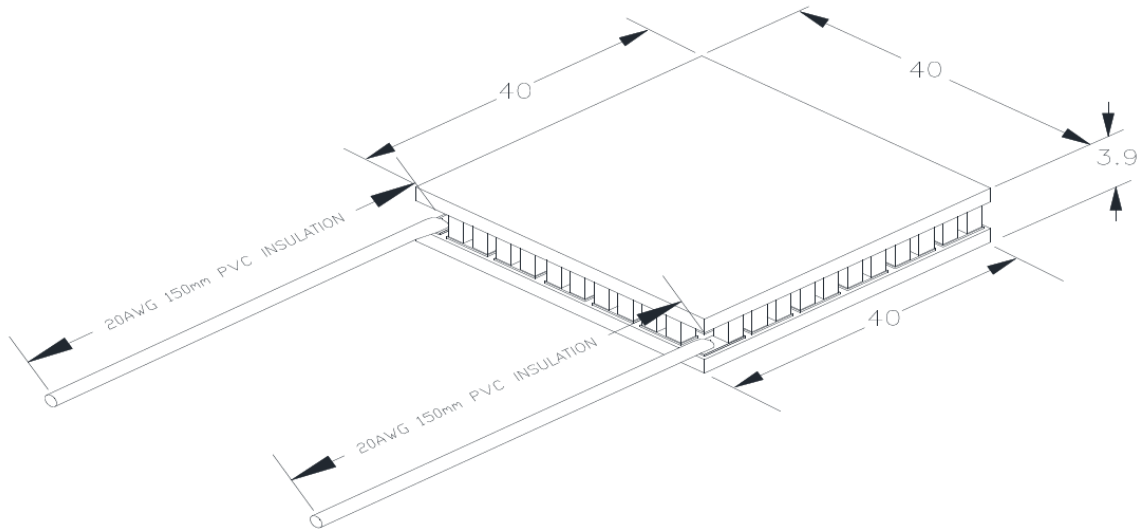
\*\*Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C

Performance Curves Th=50 °C



Mechanical Drawing:



### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

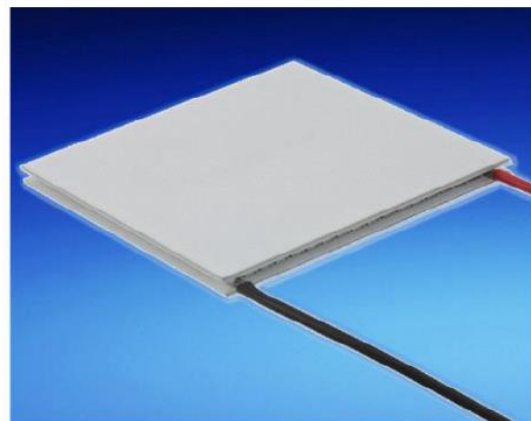
# Thermoelectric Cooler Performance Specifications



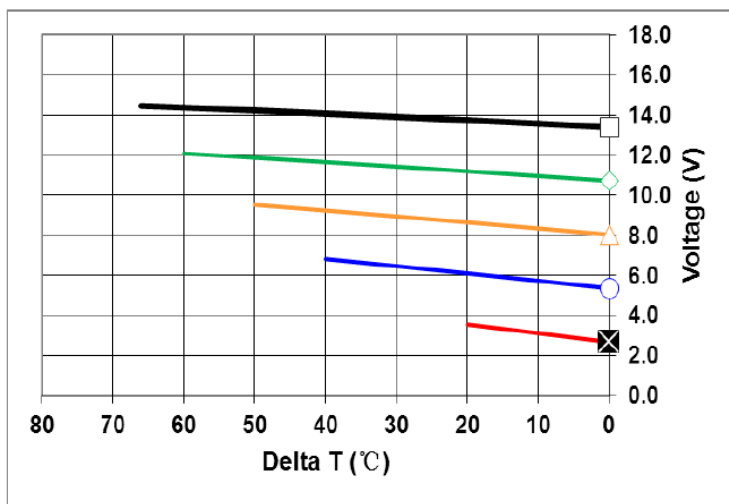
## TEC-30-32-127

Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	33.4	36.6
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	4.0	4.0
V <sub>max</sub> (Volts)	15.4	16.4
Module Resistance(Ohms)	3.38	3.8

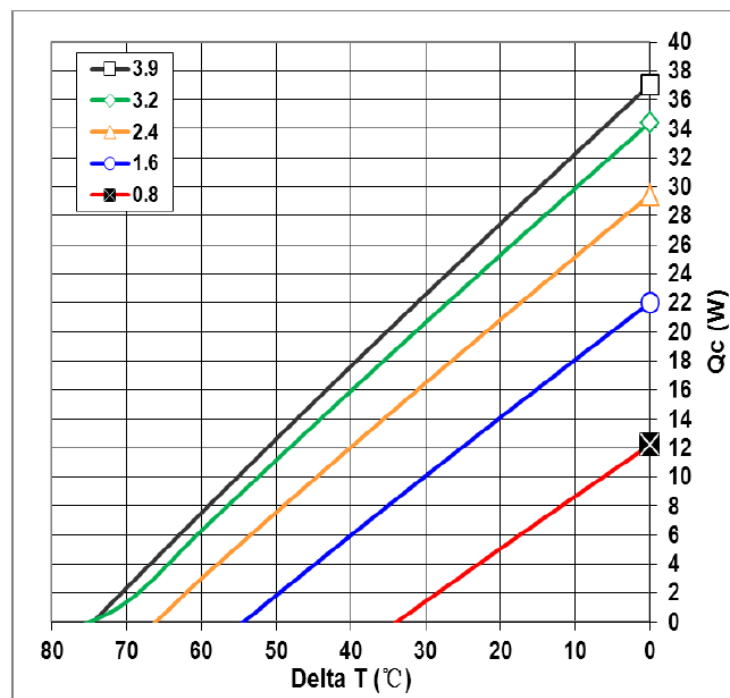
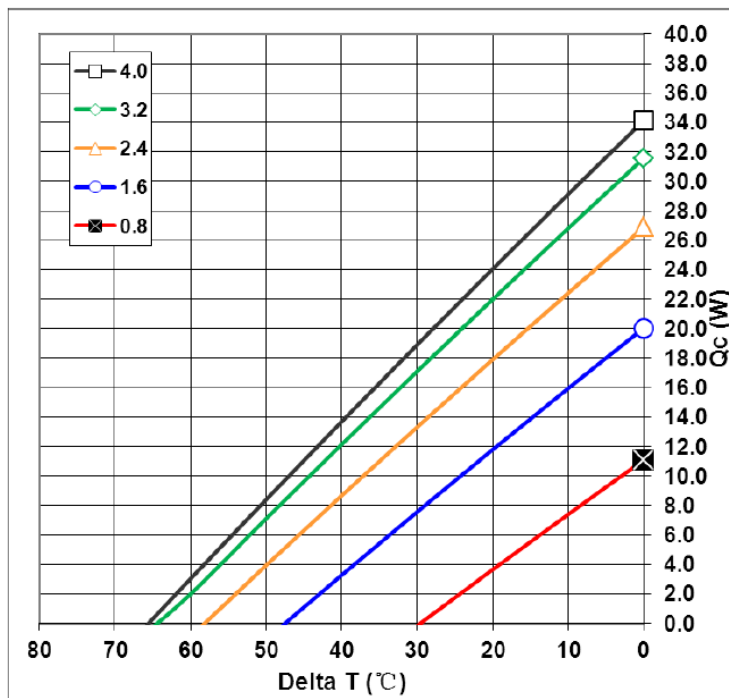
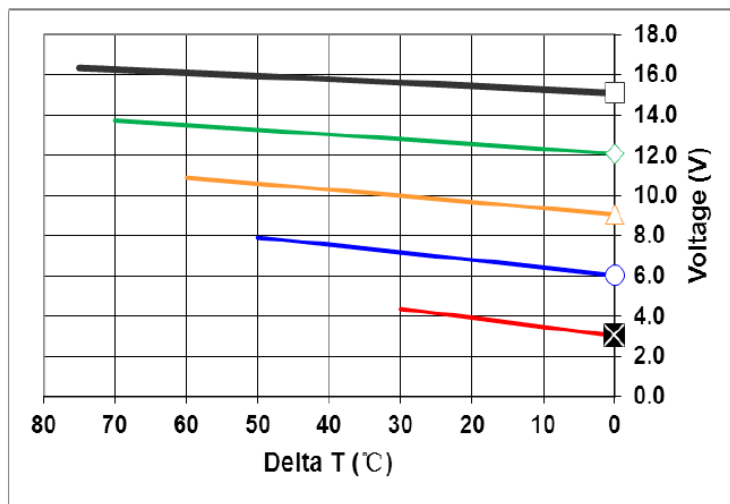
\*\*Tolerances for thermal and electrical parameters ± 10%.



Performance Curves Th=25 °C



Performance Curves Th=50 °C



Wakefield-Vette reserves the right to change these specifications without notice

Mechanical Drawing:



### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

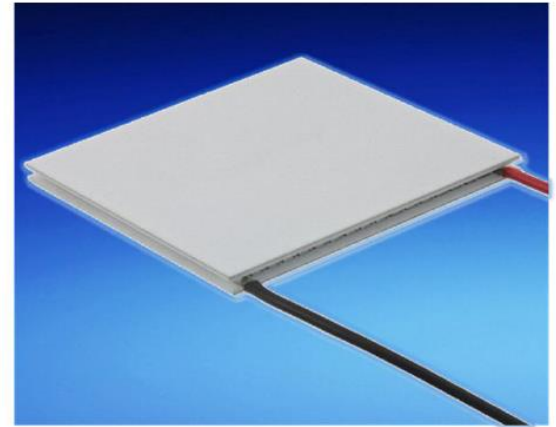
# Thermoelectric Cooler Performance Specifications



## TEC-30-40-127

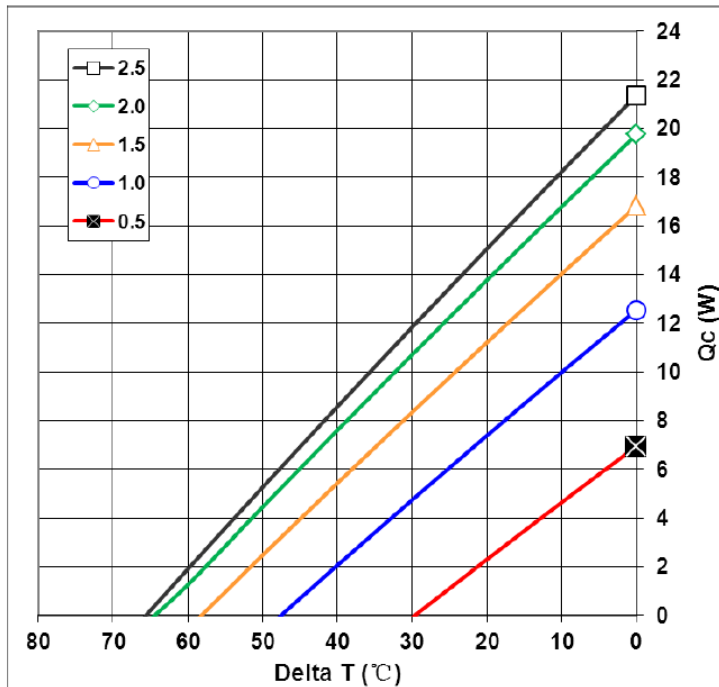
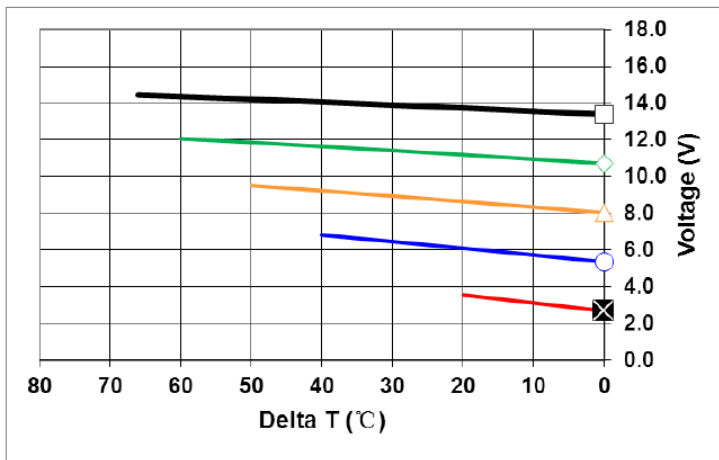
Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	21.4	23.6
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	2.5	2.5
V <sub>max</sub> (Volts)	15.4	16.4
Module Resistance(Ohms)	5.30	6.07

\*\*Tolerances for thermal and electrical parameters ± 10%.

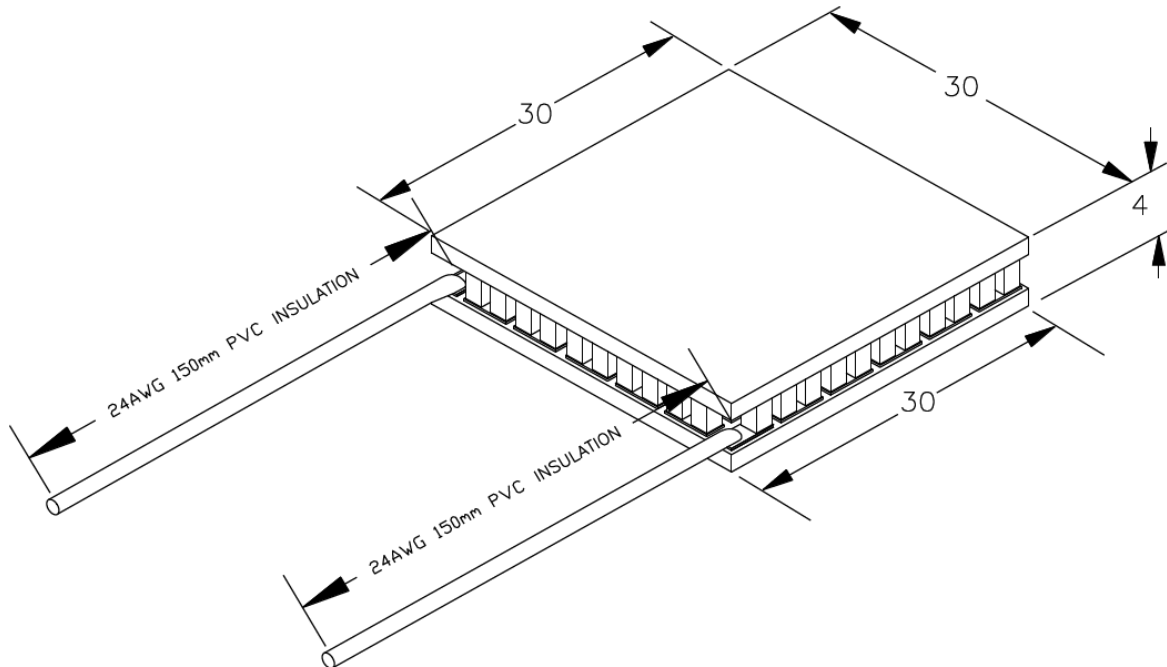


Performance Curves Th=25 °C

Performance Curves Th=50 °C



### Mechanical Drawing:



### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
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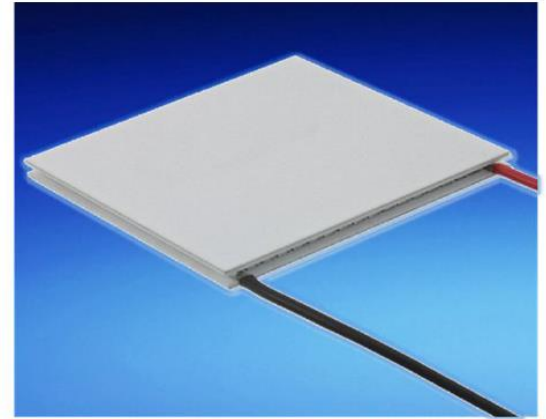
# Thermoelectric Cooler Performance Specifications



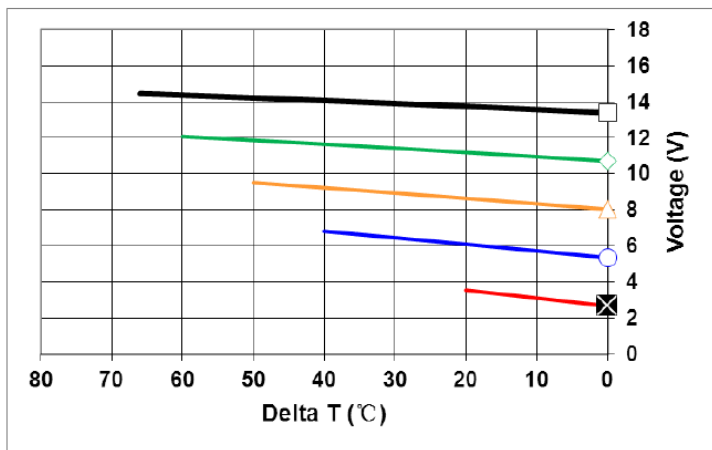
## TEC-40-33-127

Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	72	82
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	8.5	8.5
V <sub>max</sub> (Volts)	15.4	16.4
ModuleResistance(Ohms)	1.66	1.74

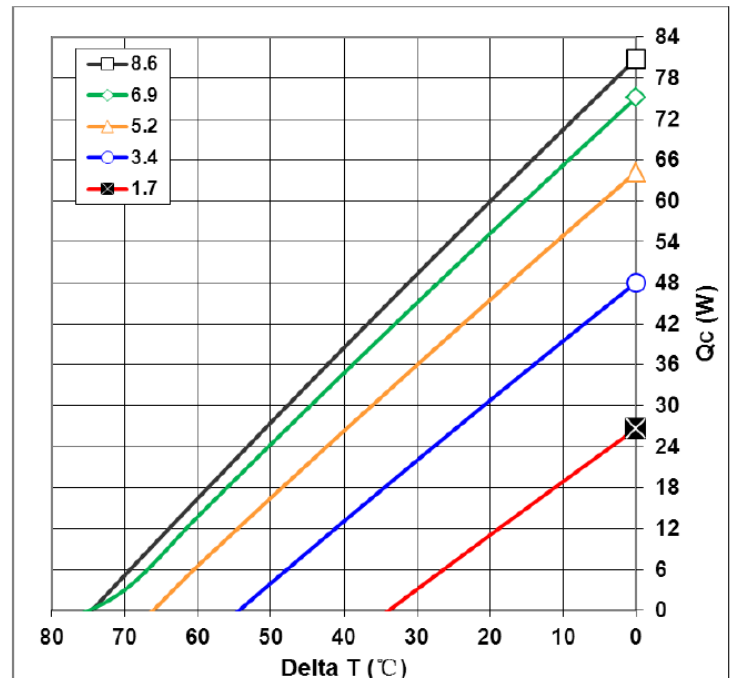
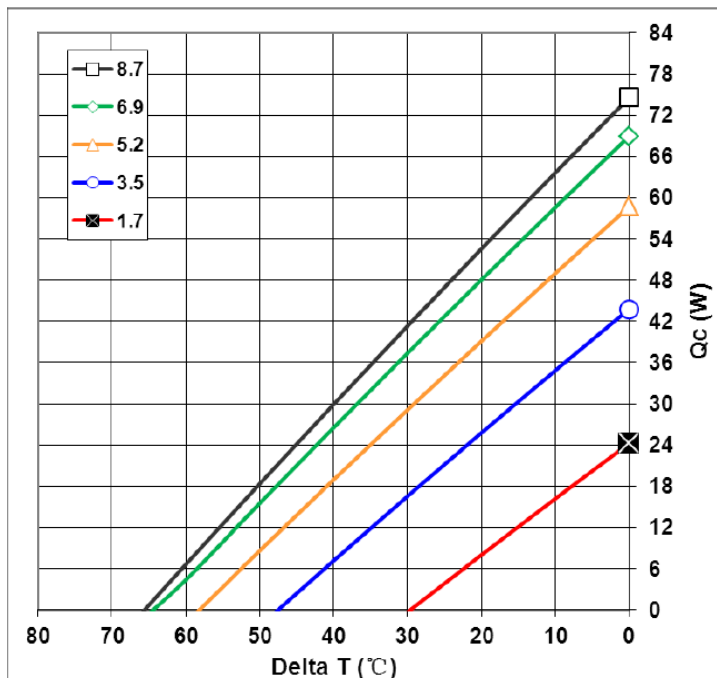
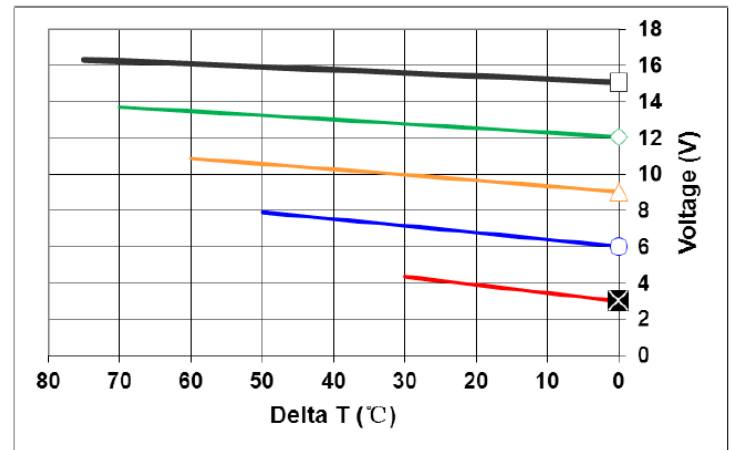
\*\*Tolerances for thermal and electrical parameters ± 10%.



Performance Curves Th=25 °C



Performance Curves Th=50 °C





### Mechanical Drawing:



### Operation Tips:

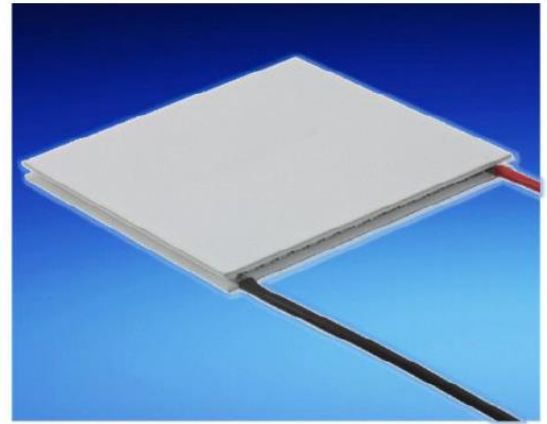
- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

# Thermoelectric Cooler Performance Specifications



## TEC-30-36-127

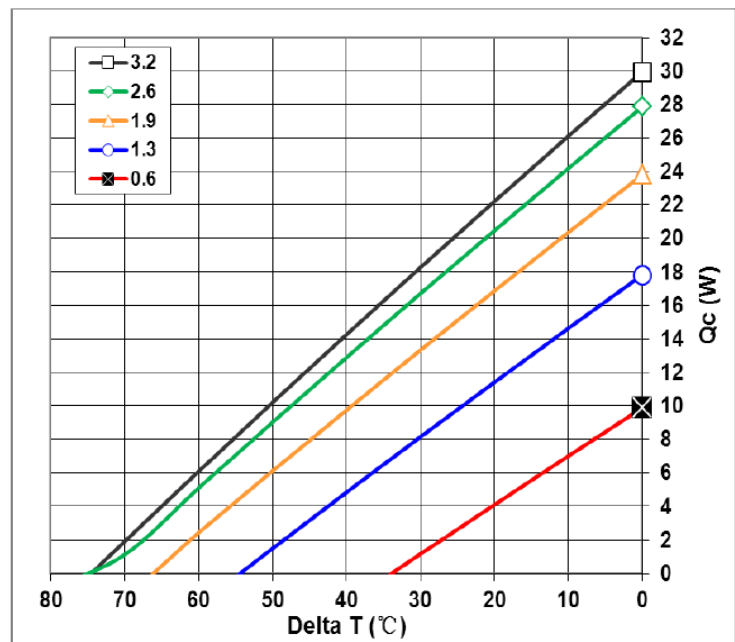
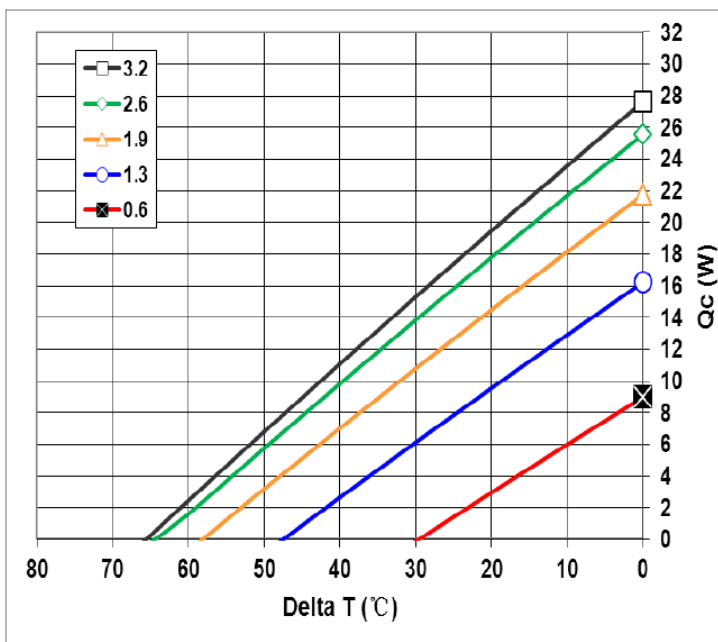
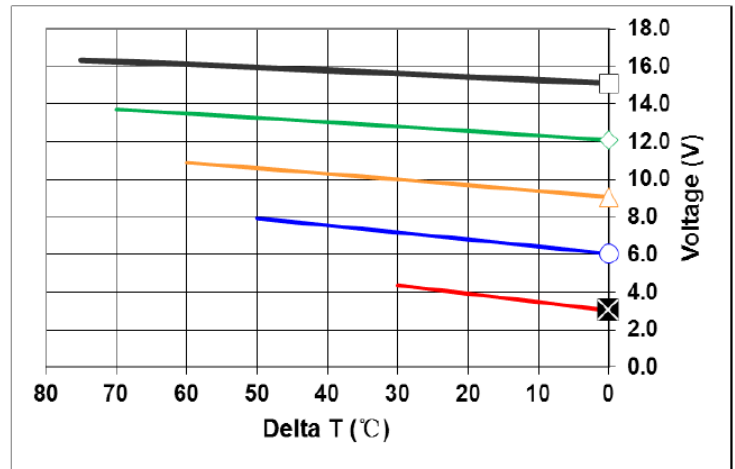
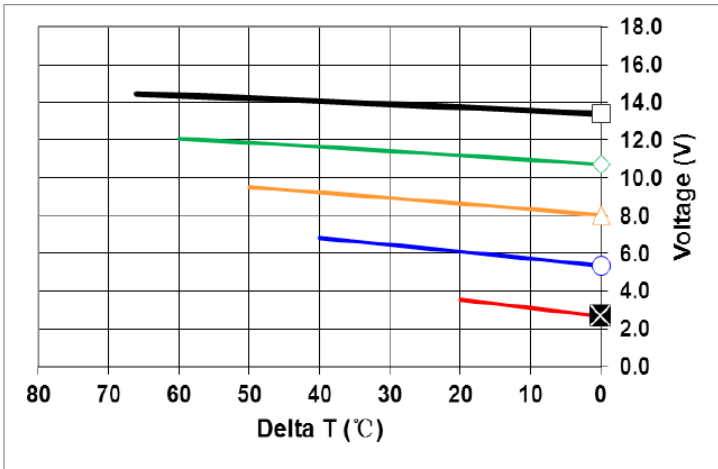
Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	25.7	29.8
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	3.0	3.0
V <sub>max</sub> (Volts)	15.4	16.4
Module Resistance(Ohms)	4.13	4.69



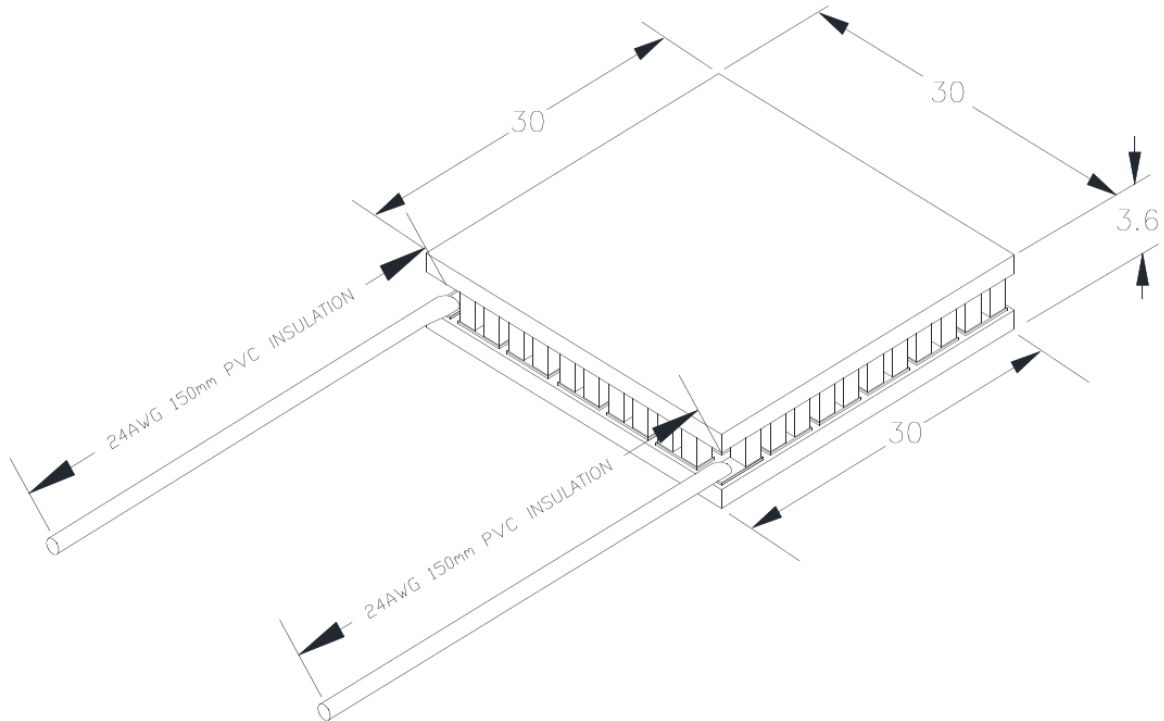
\*\*Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C

Performance Curves Th=50 °C



### Mechanical Drawing:



### Operation Tips:

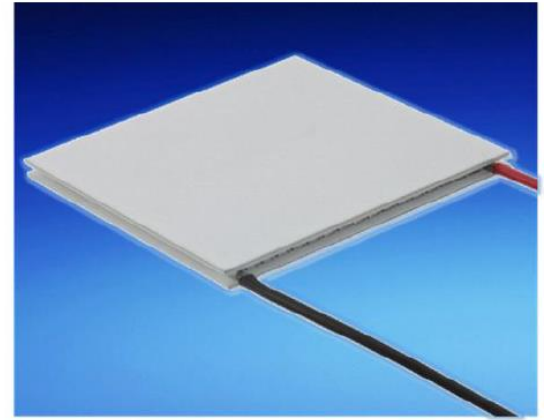
- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

# Thermoelectric Cooler Performance Specifications



## TEC-30-39-71

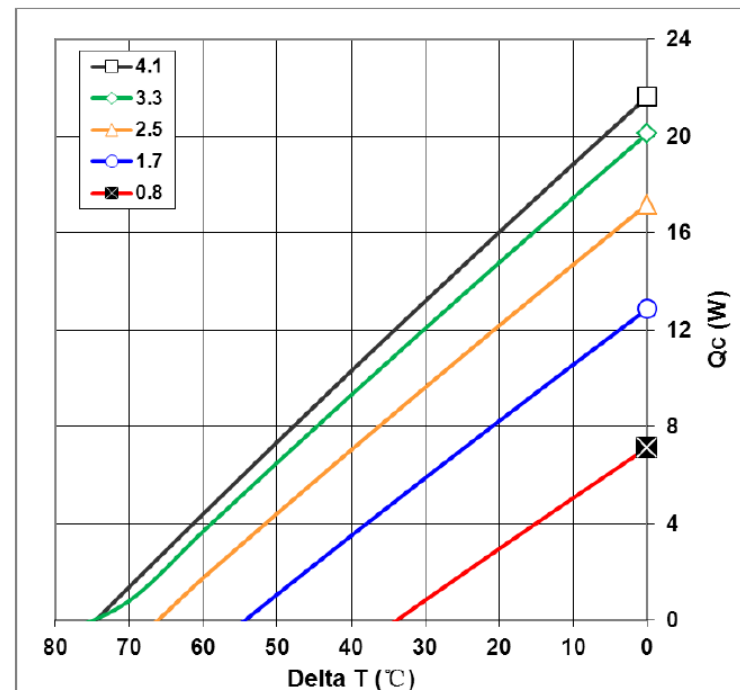
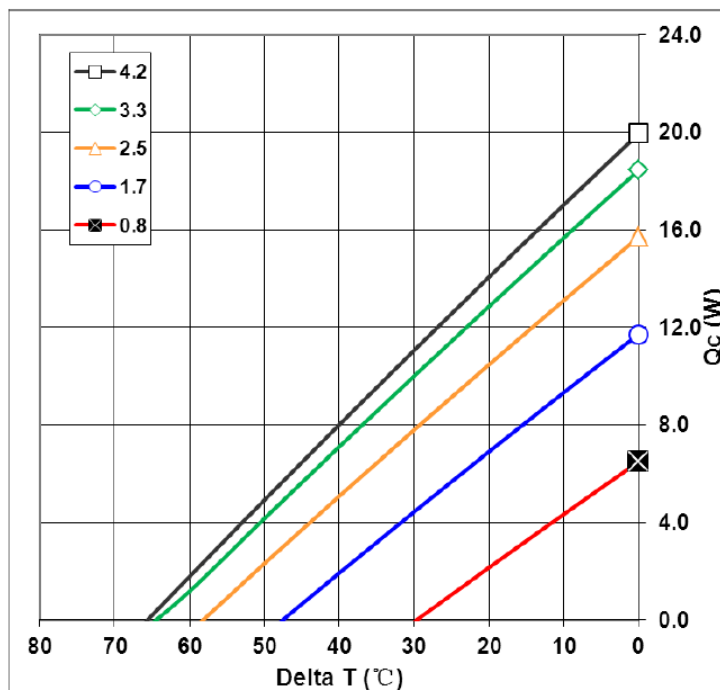
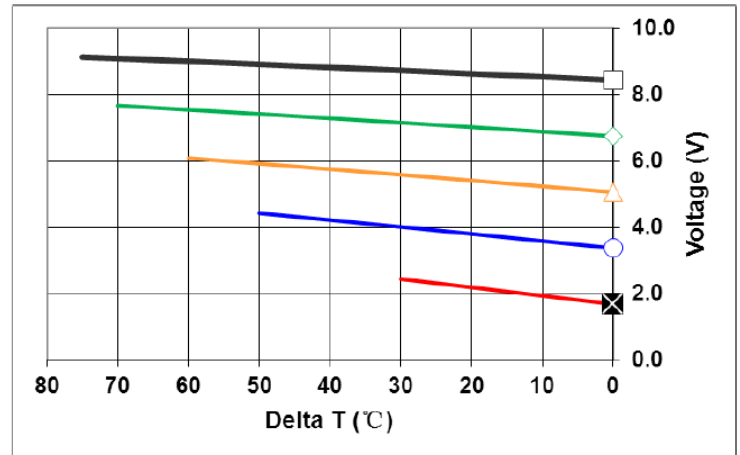
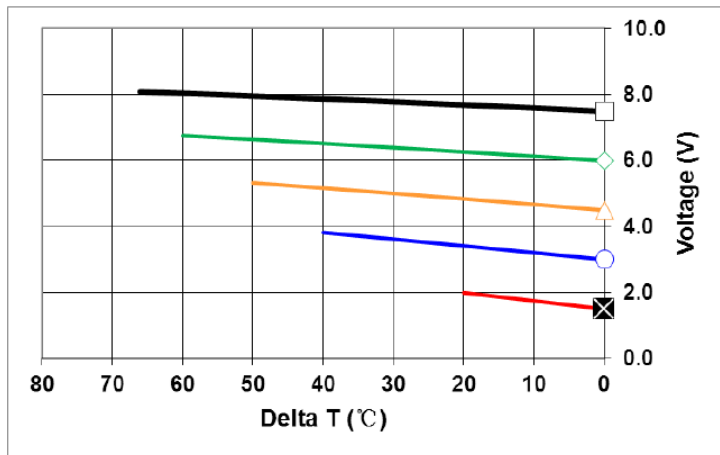
Hot Side Temperature(°C)	27°C	50°C
Qmax (Watts)	18.7	21.9
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	4.0	4.0
V <sub>max</sub> (Volts)	8.6	9.6
Module Resistance(Ohms)	1.86	2.1



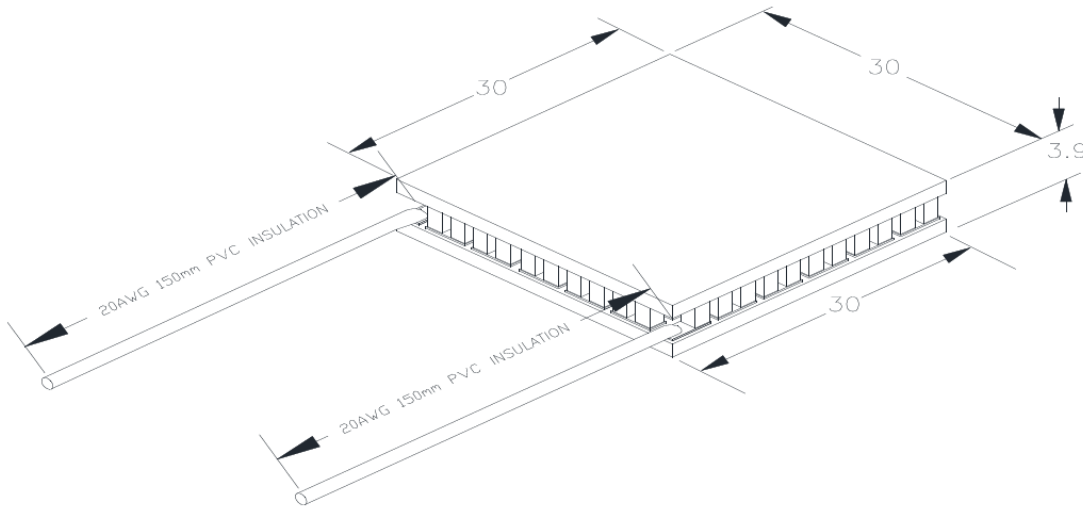
\*\*Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25°C

Performance Curves Th=50°C



### Mechanical Drawing:



### Operation Tips:

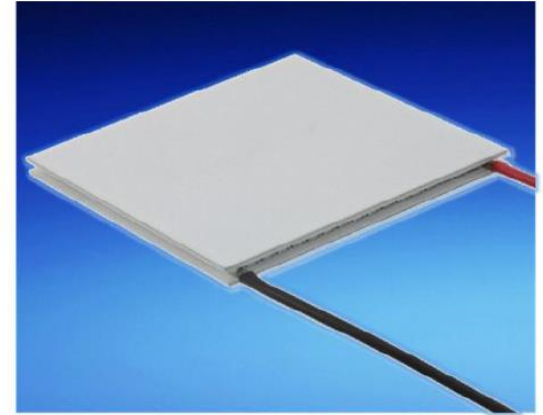
- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

# Thermoelectric Cooler Performance Specifications



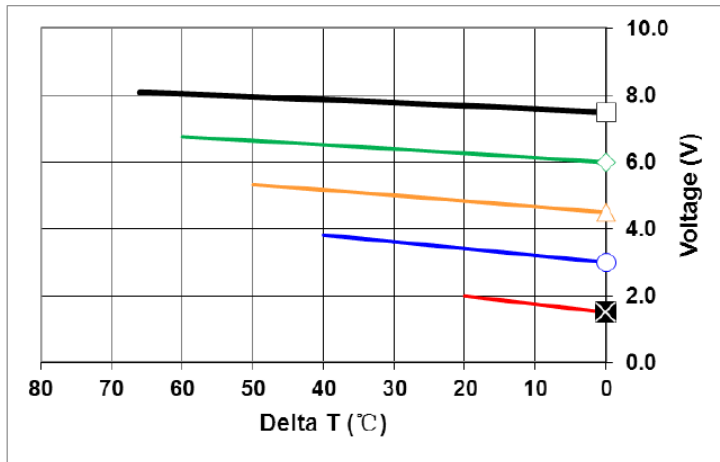
## TEC-30-36-71

Hot Side Temperature(°C)	27°C	50 °C
Qmax (Watts)	28.7	31.2
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	6.0	6.0
V <sub>max</sub> (Volts)	8.6	9.5
Module Resistance(Ohms)	1.24	1.41

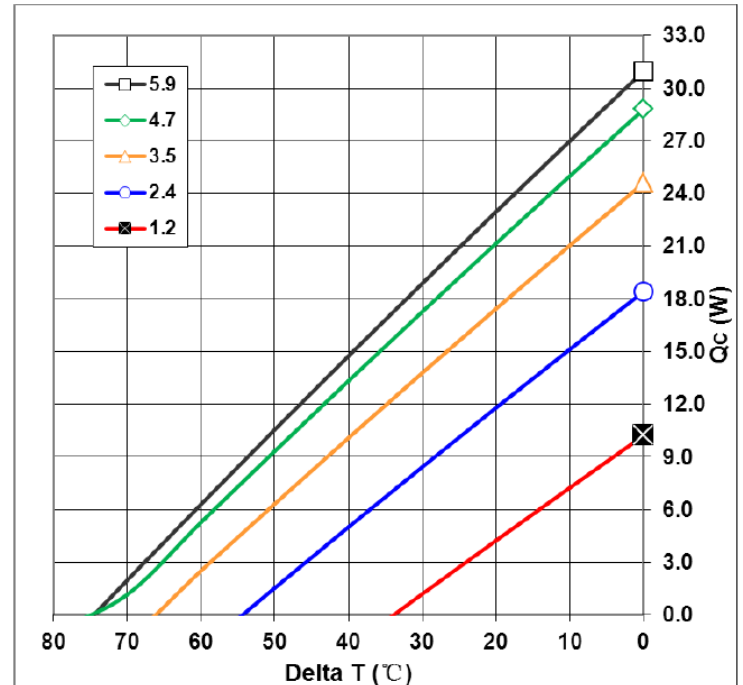
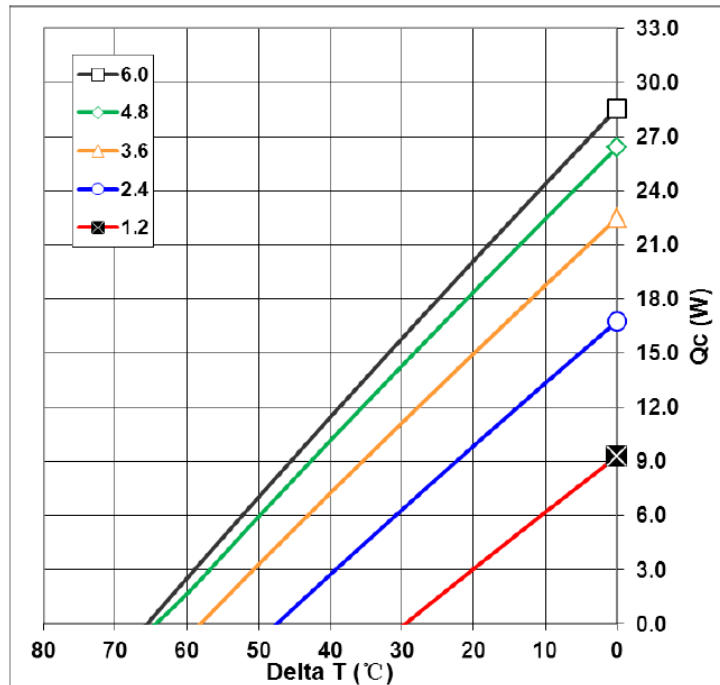


\*\*Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C



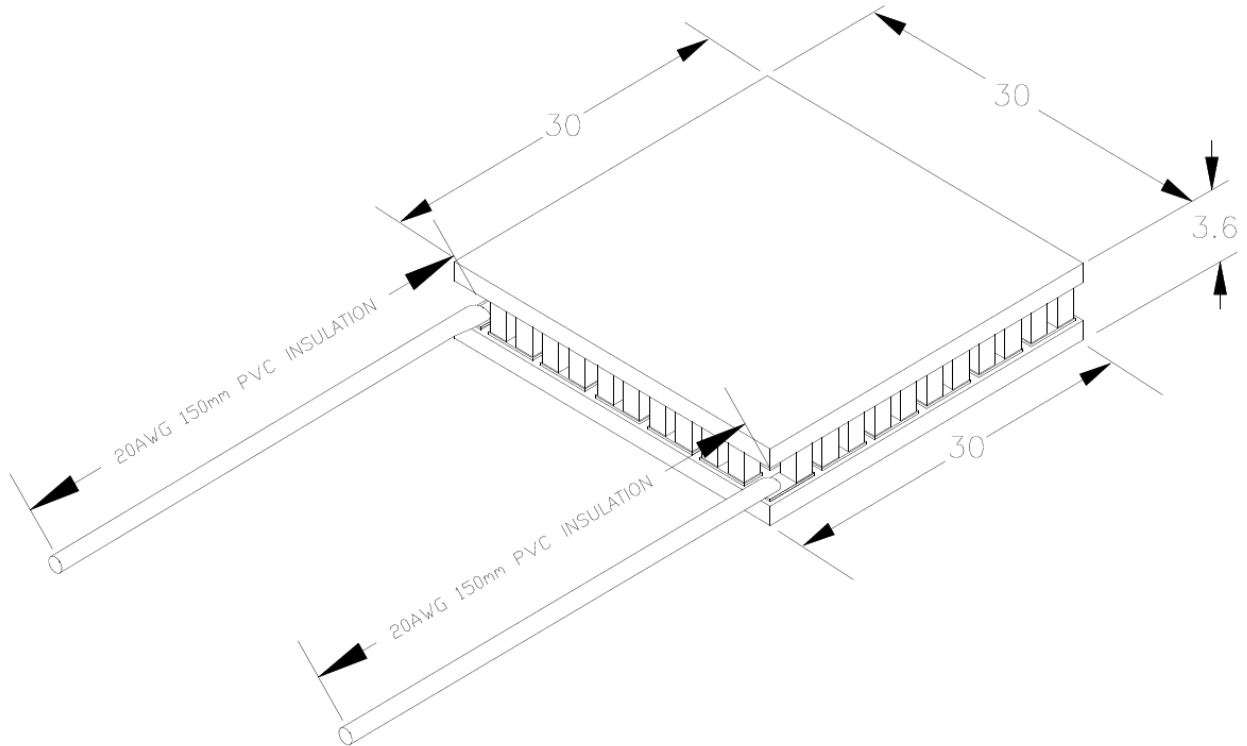
Performance Curves Th=50 °C



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### Mechanical Drawing:



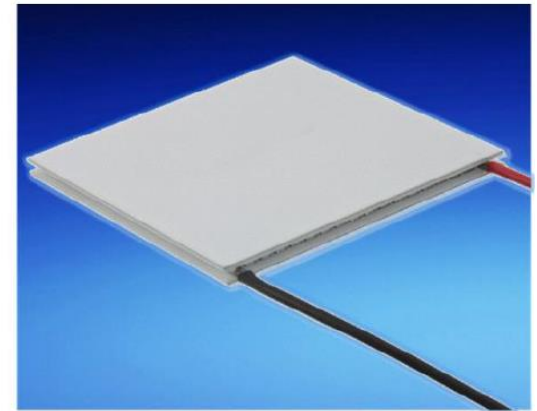
### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

# Thermoelectric Cooler Performance Specifications



## TEC-40-36-127

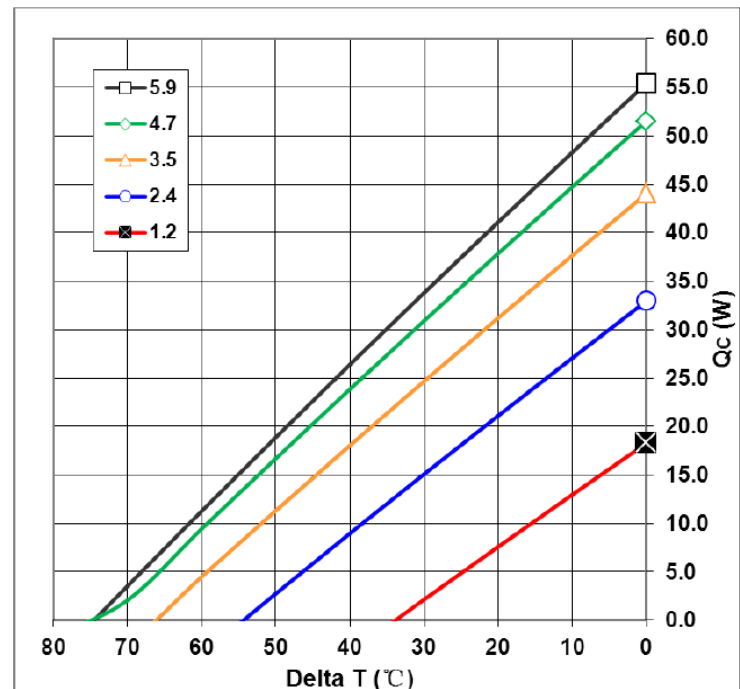
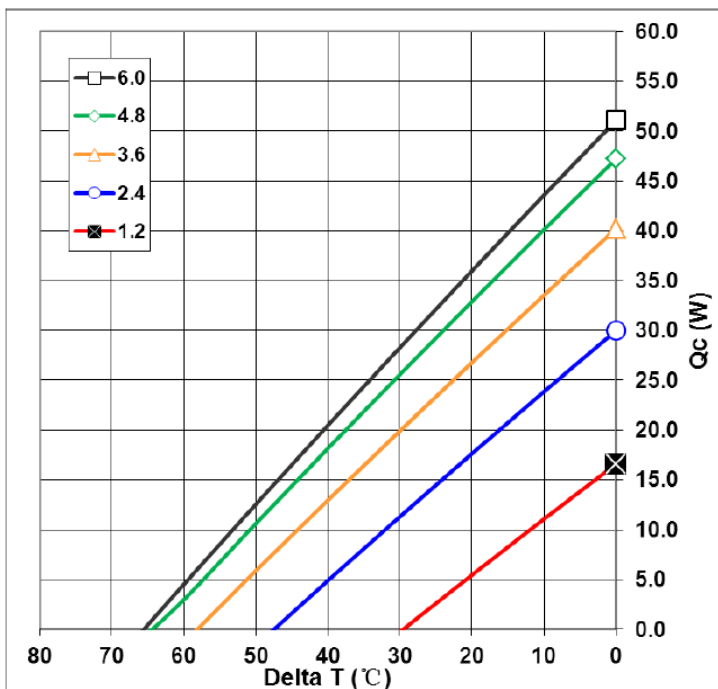
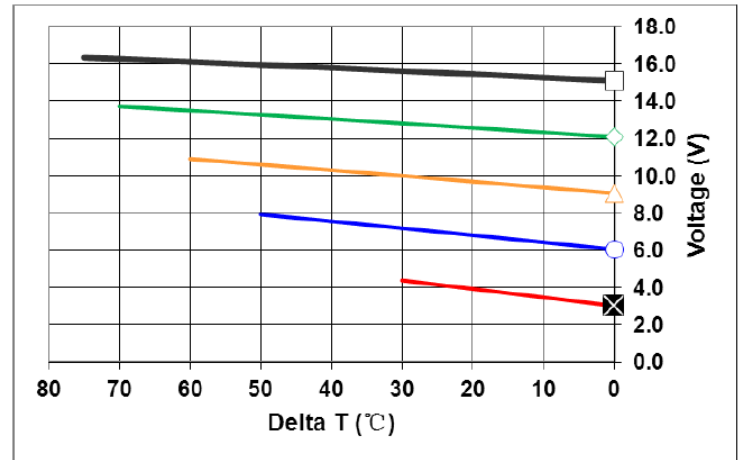
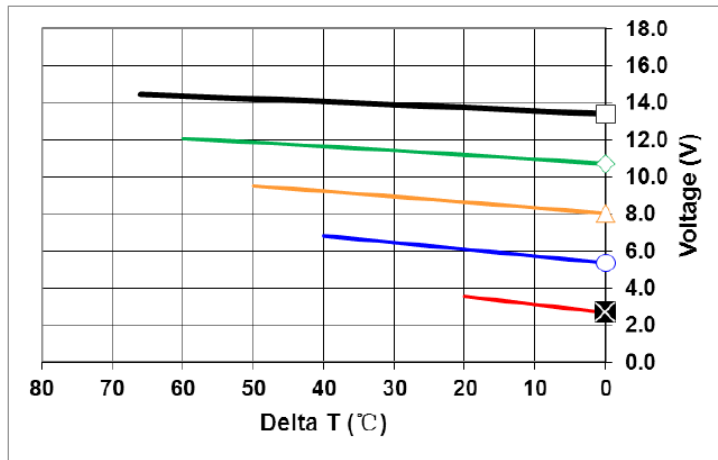


Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	51.4	55
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	6.0	6.0
V <sub>max</sub> (Volts)	15.4	16.4
Module Resistance(Ohms)	2.17	2.54

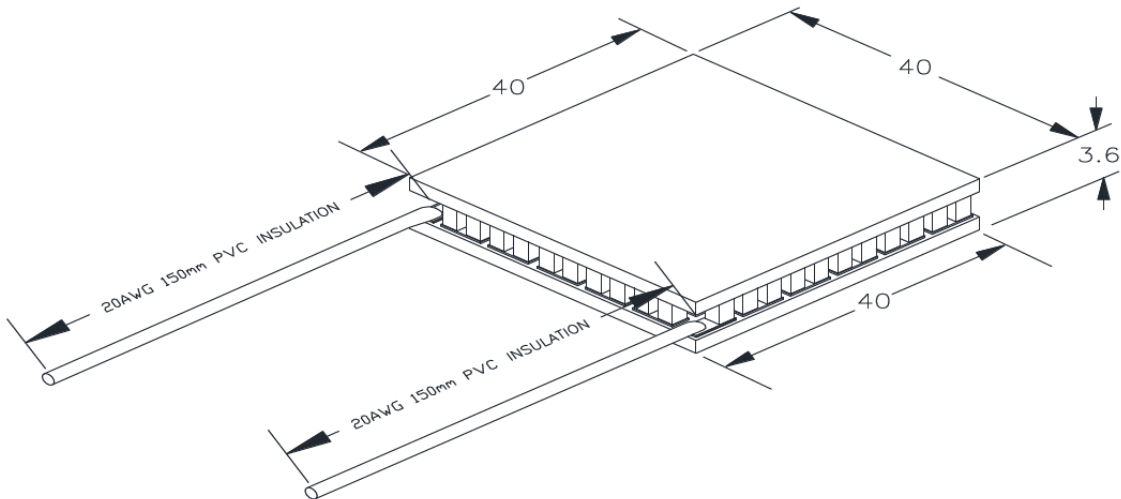
\*\*Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C

Performance Curves Th=50 °C



### Mechanical Drawing:



### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

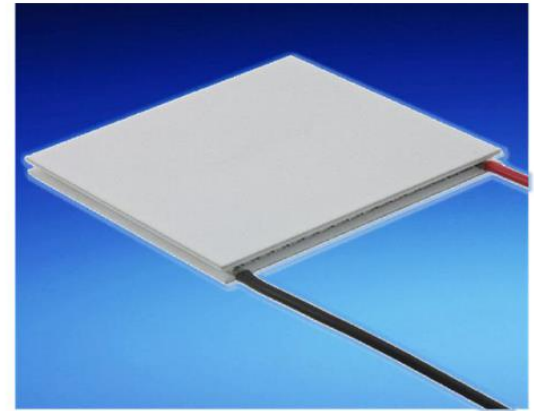
# Thermoelectric Cooler Performance Specifications



## TEC-20-33-31

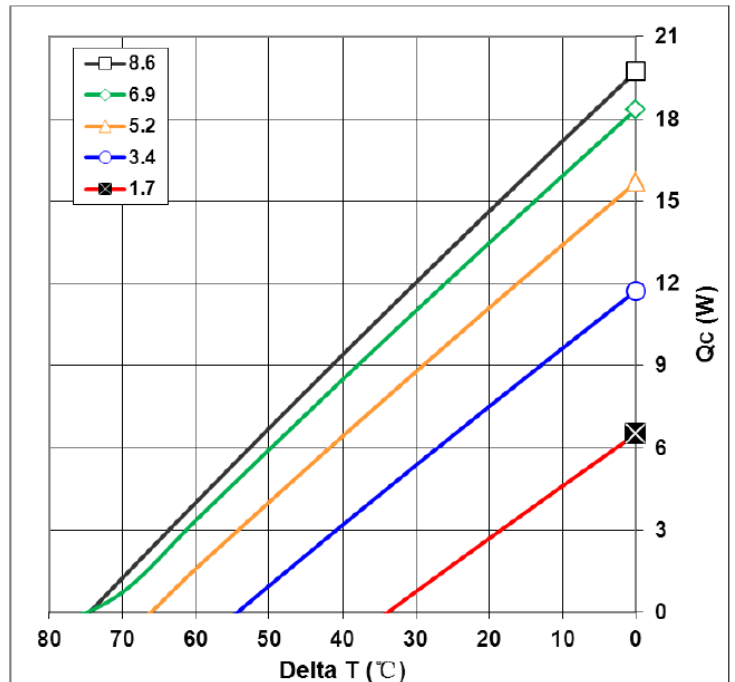
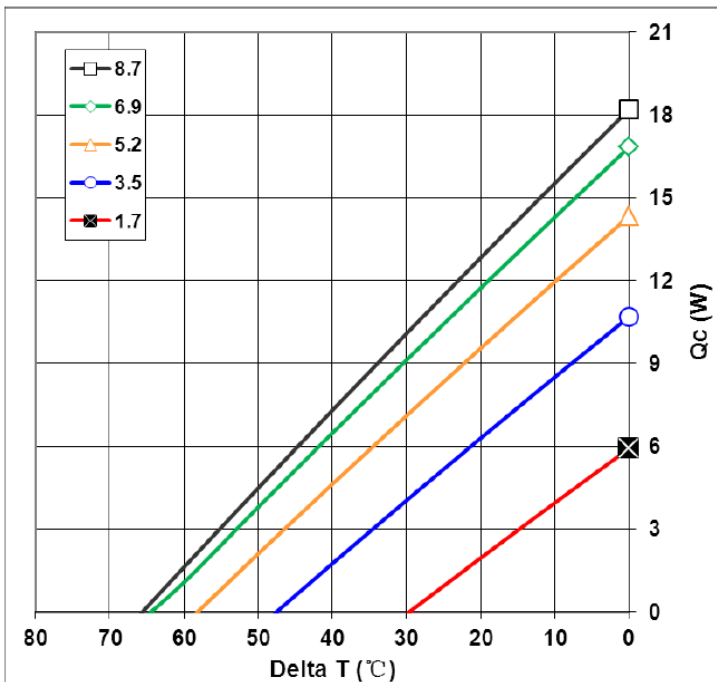
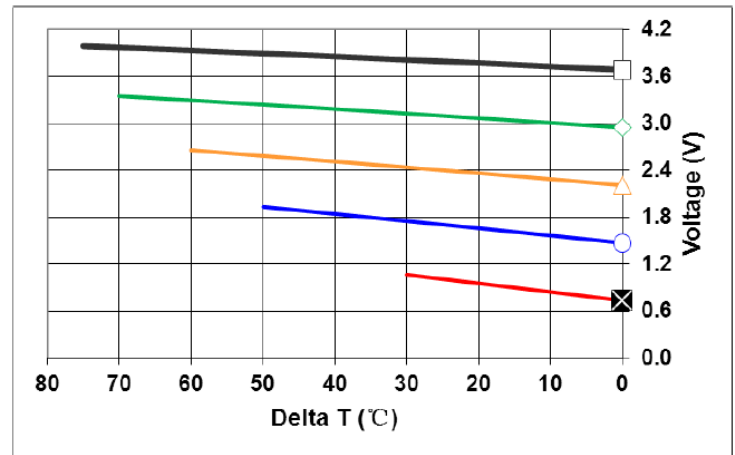
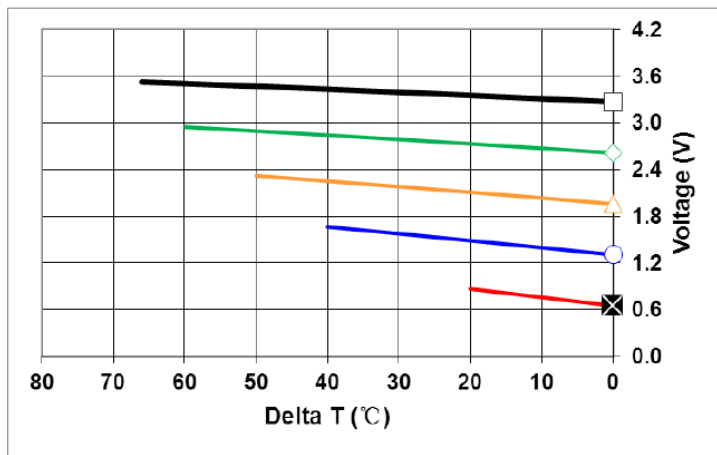
Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	16.8	20.3
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	8.5	8.5
V <sub>max</sub> (Volts)	3.75	4.1
Module Resistance(Ohms)	0.38	0.42

\*\*Tolerances for thermal and electrical parameters ± 10%.

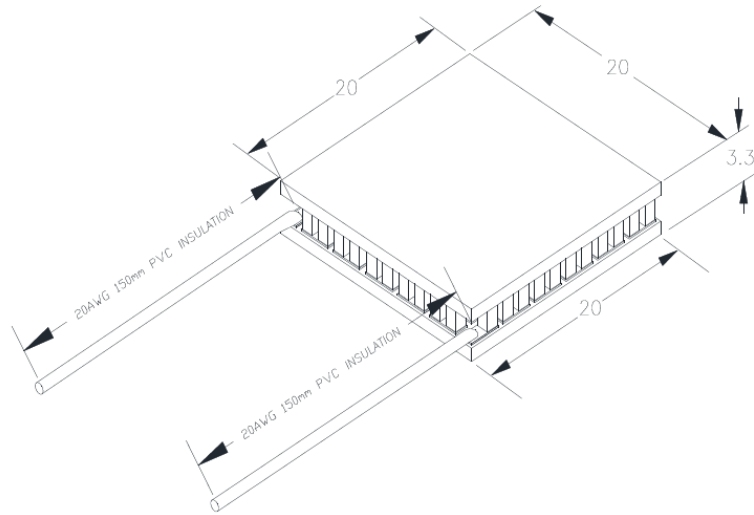


Performance Curves Th=25 °C

Performance Curves Th=50 °C



Mechanical Drawing:



### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

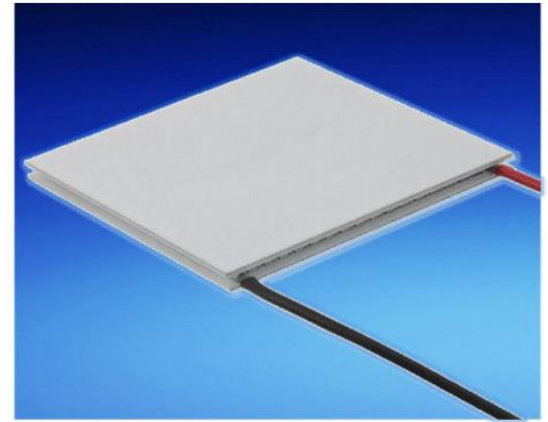
# Thermoelectric Cooler Performance Specifications



## TEC-30-33-71

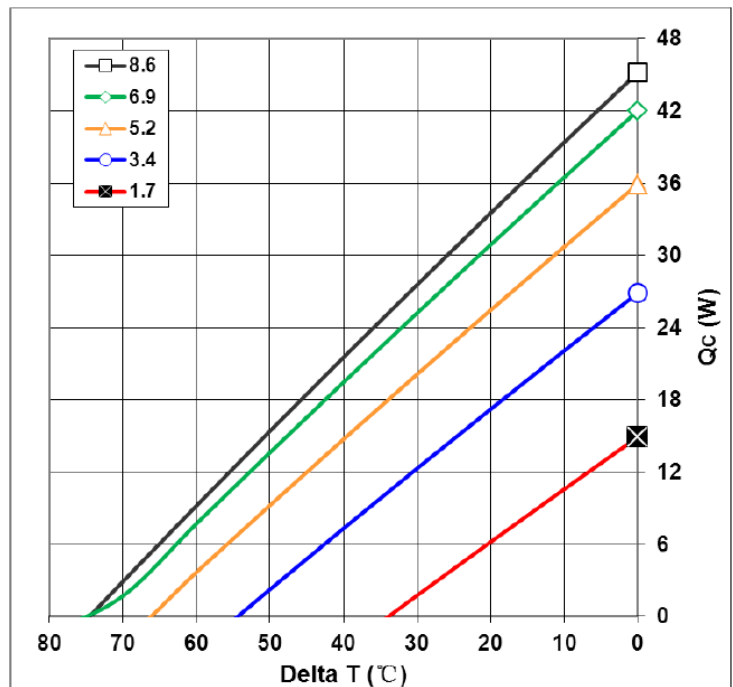
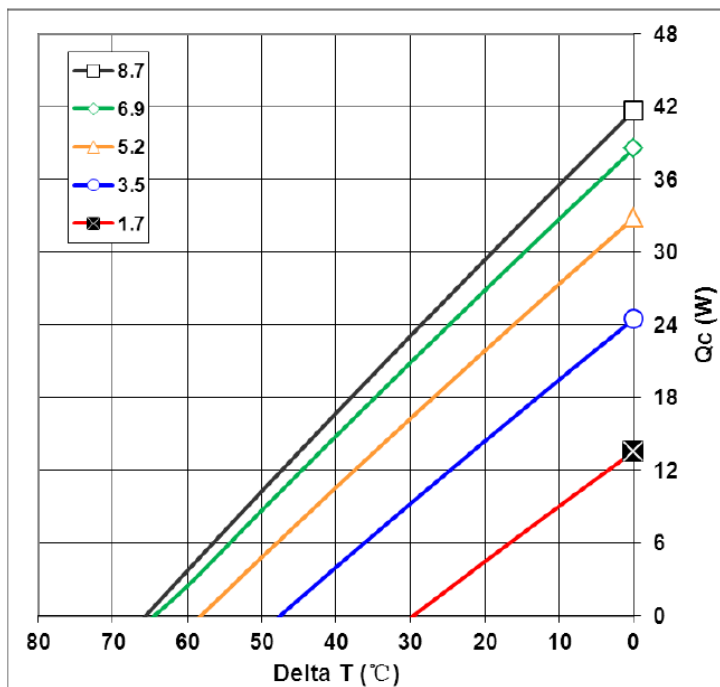
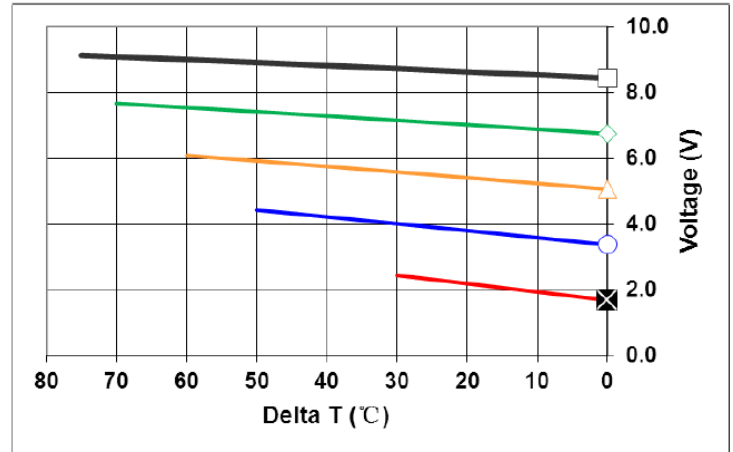
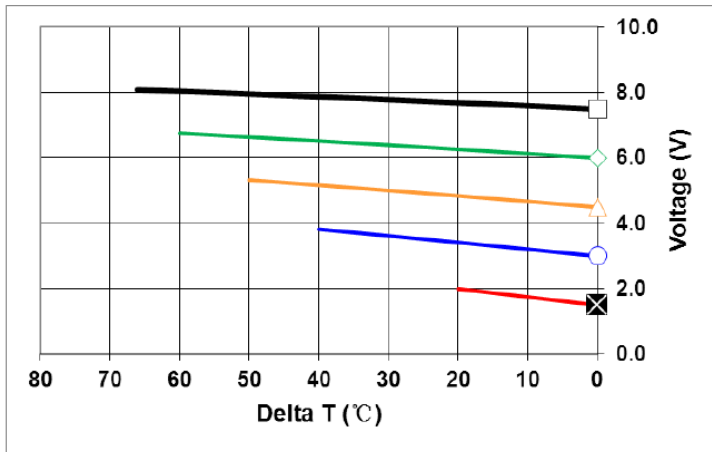
Hot Side Temperature(°C)	27 °C	50 °C
Qmax (Watts)	38.5	46
Delta Tmax(°C)	68	75
I <sub>max</sub> (Amps)	8.5	8.5
V <sub>max</sub> (Volts)	8.6	9.6
Module Resistance(Ohms)	0.86	0.97

\*\*Tolerances for thermal and electrical parameters ± 10%.



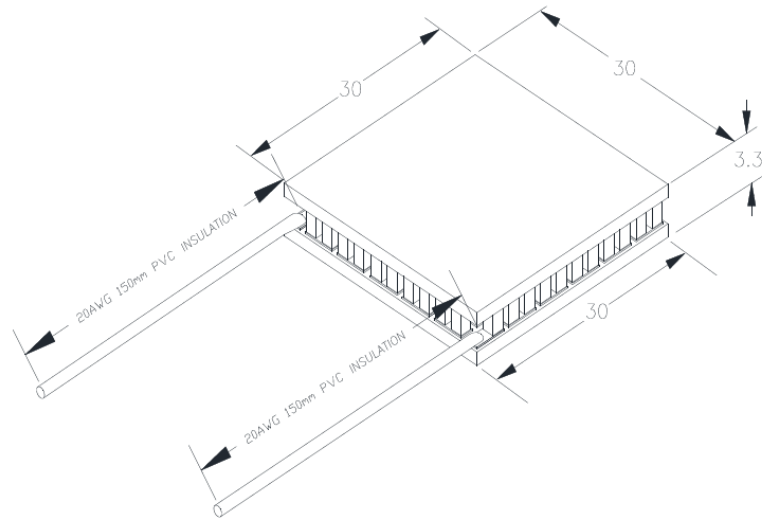
Performance Curves Th=25 °C

Performance Curves Th=50 °C





Mechanical Drawing:



### Operation Tips:

- **Maximum Operating Temperature: 90°C**
- **Do not exceed  $I_{max}$  or  $V_{max}$  when operating module**
- **Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries**

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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