TEC Series

wakefield-vette

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		Current max (A)		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

TEC-40-39-127

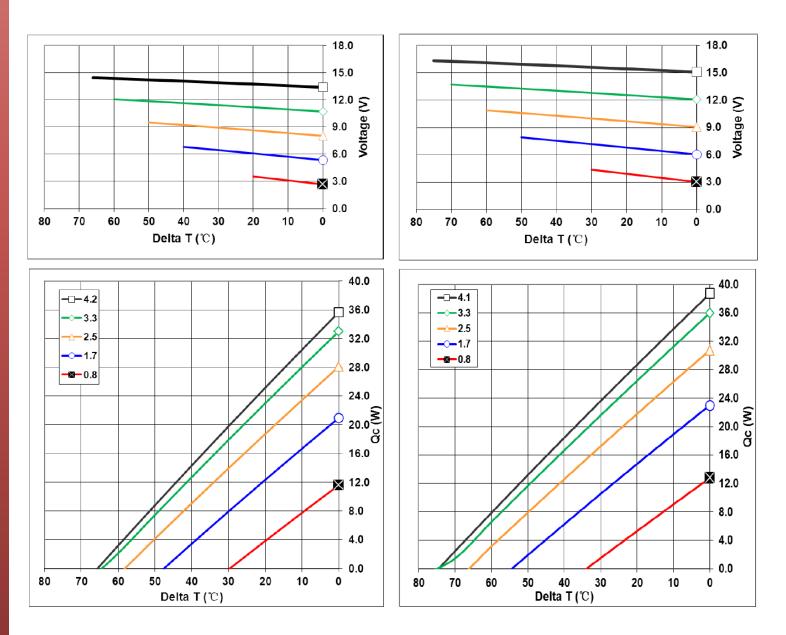
Hot SideTemperature(ºC)	27 °C	50 °C
Qmax (Watts)	33.4	39
Delta Tmax(ºC)	68	75
Imax (Amps)	4.0	4.0
Vmax (Volts)	15.4	16.4
ModuleResistance(Ohms)	3.22	3.63

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

Performance Curves Th=25 °C

wakefield-vette

Performance Curves Th=50 °C

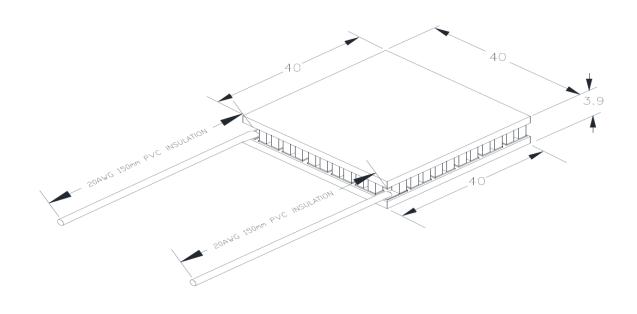




TEC-40-39-127

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Mechanical Drawing:



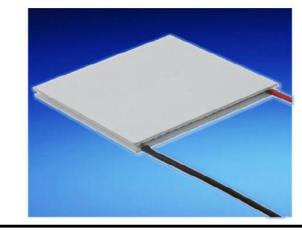
Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

TEC-30-32-127

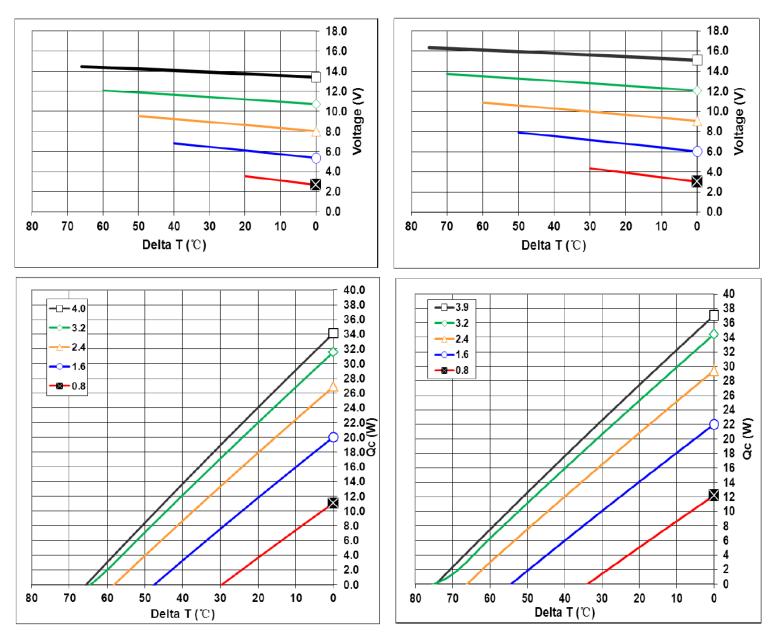
Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	33.4	36.6
Delta Tmax(°C)	68	75
Imax (Amps)	4.0	4.0
Vmax (Volts)	15.4	<mark>16.4</mark>
ModuleResistance(Ohms)	3.38	3.8

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



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Performance Curves Th=50 °C



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

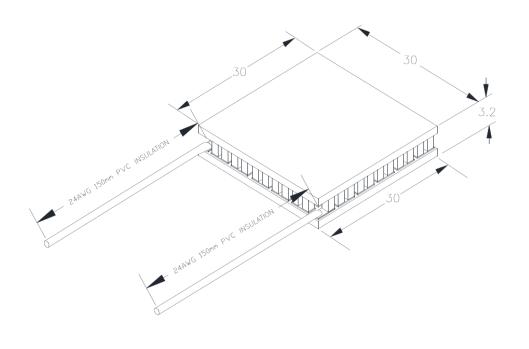
Performance Curves Th=25 °C

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TEC-30-32-127



Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

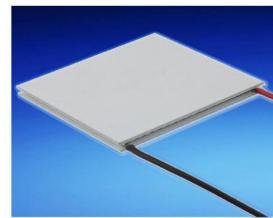
TEC-30-40-127

Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	21.4	23.6
Delta Tmax(°C)	68	75
Imax (Amps)	2.5	2.5
Vmax (Volts)	<mark>15.4</mark>	16.4
ModuleResistance(Ohms)	5.30	6.07

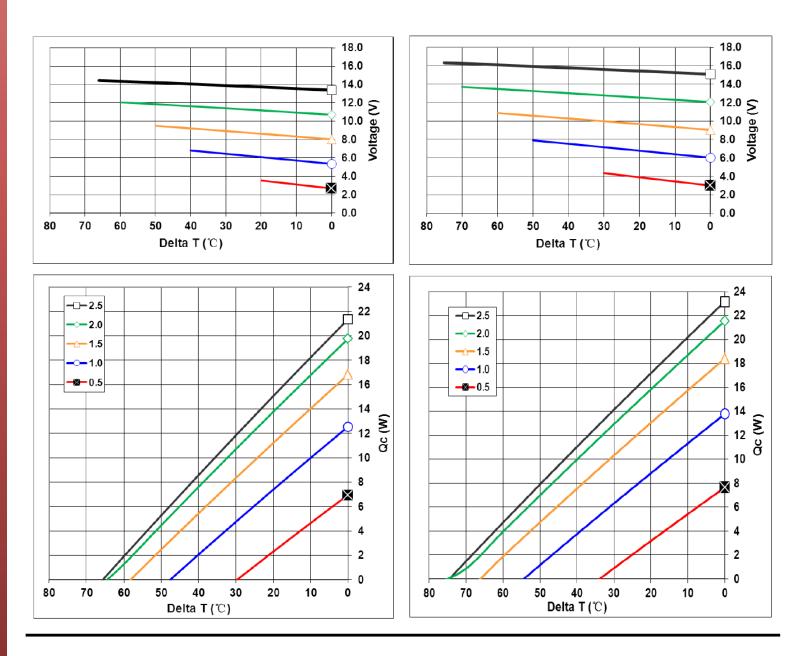
**Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C





Performance Curves Th=50 °C



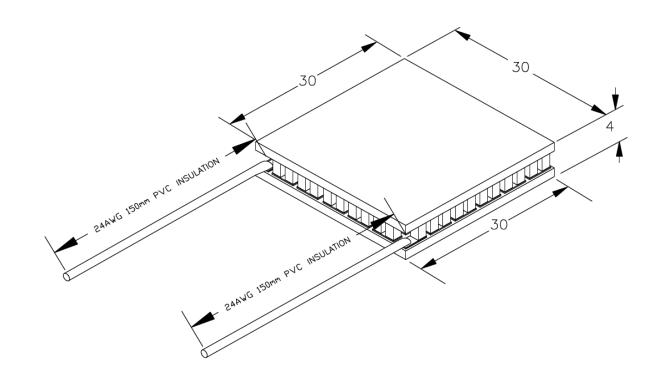
Wakefield-Vette reserves the right to change these specifications without notice

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TEC-30-40-127

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Mechanical Drawing:



Operation Tips:

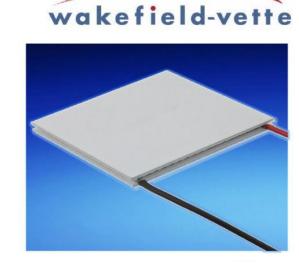
- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

TEC-40-33-127

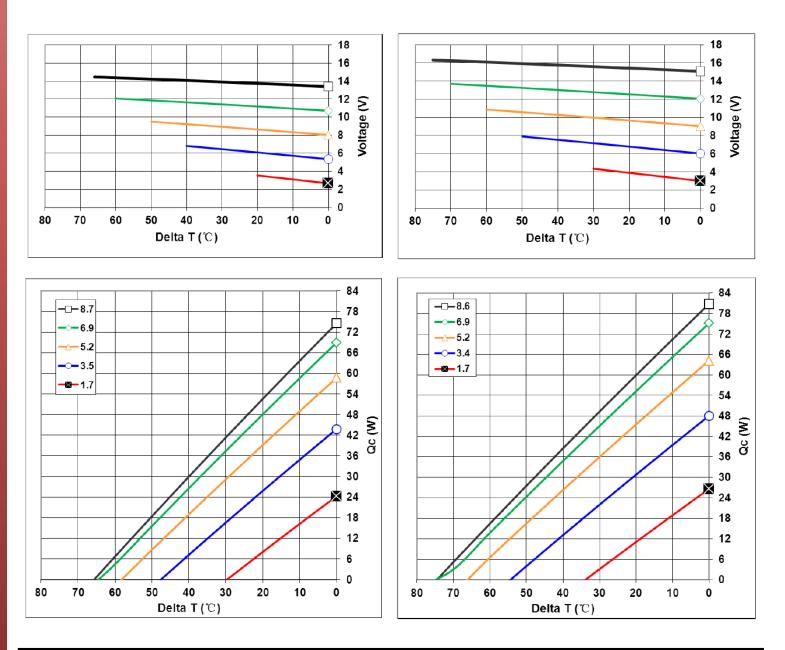
Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	72	82
Delta Tmax(°C)	68	75
Imax (Amps)	8.5	8.5
Vmax (Volts)	15. <mark>4</mark>	16.4
ModuleResistance(Ohms)	1.66	1.74

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

Performance Curves Th=25 °C



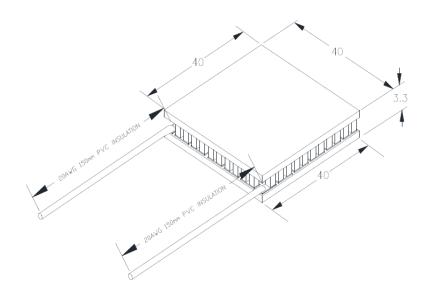
Performance Curves Th=50 °C



TEC-40-33-127

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Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

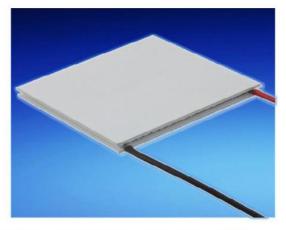
TEC-30-36-127

Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	25.7	29.8
Delta Tmax(°C)	68	75
Imax (Amps)	3.0	3.0
Vmax (Volts)	15.4	16.4
ModuleResistance(Ohms)	4.13	4.69

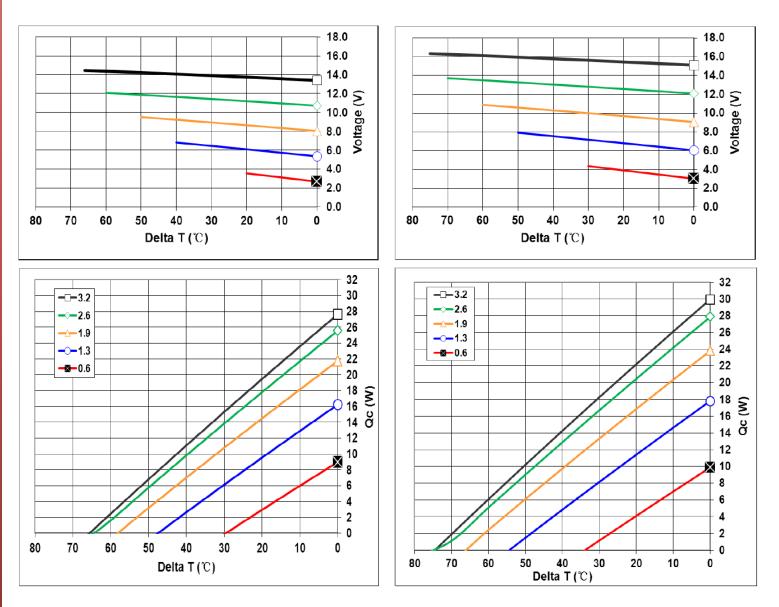
**Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C





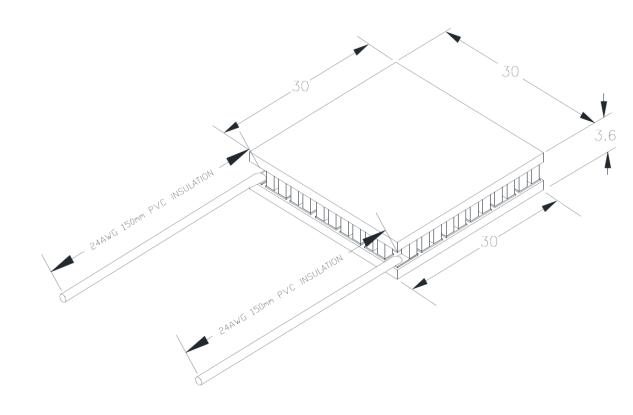
Performance Curves Th=50 °C



TEC-30-36-127



Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

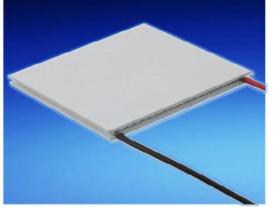
TEC-30-39-71

Hot SideTemperature(°C)	27°C	50 °C
Qmax (Watts)	18.7	21.9
Delta Tmax(°C)	68	75
Imax (Amps)	4.0	4.0
Vmax (Volts)	8.6	9.6
ModuleResistance(Ohms)	1.86	2.1

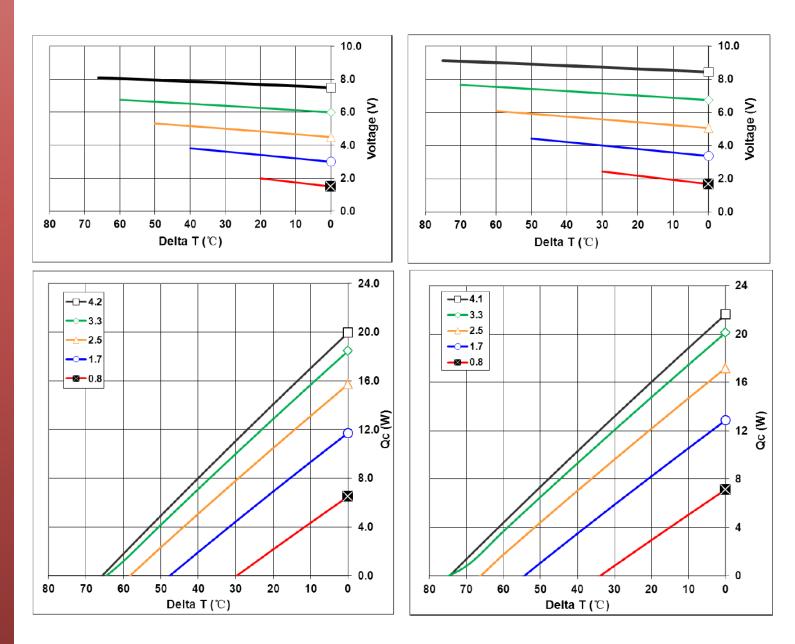
**Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C





Performance Curves Th=50 °C

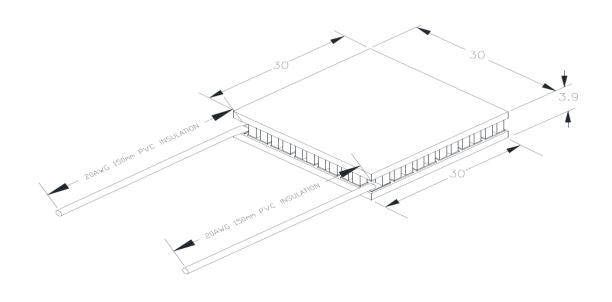




TEC-30-39-71

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Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

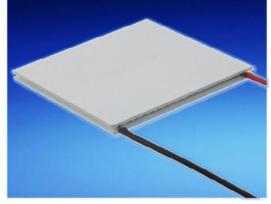
TEC-30-36-71

Hot SideTemperature(°C)	27°C	50 °C
Qmax (Watts)	28.7	31.2
Delta Tmax(°C)	68	75
Imax (Amps)	6.0	6.0
Vmax (Volts)	8.6	9.5
ModuleResistance(Ohms)	1.24	1.41

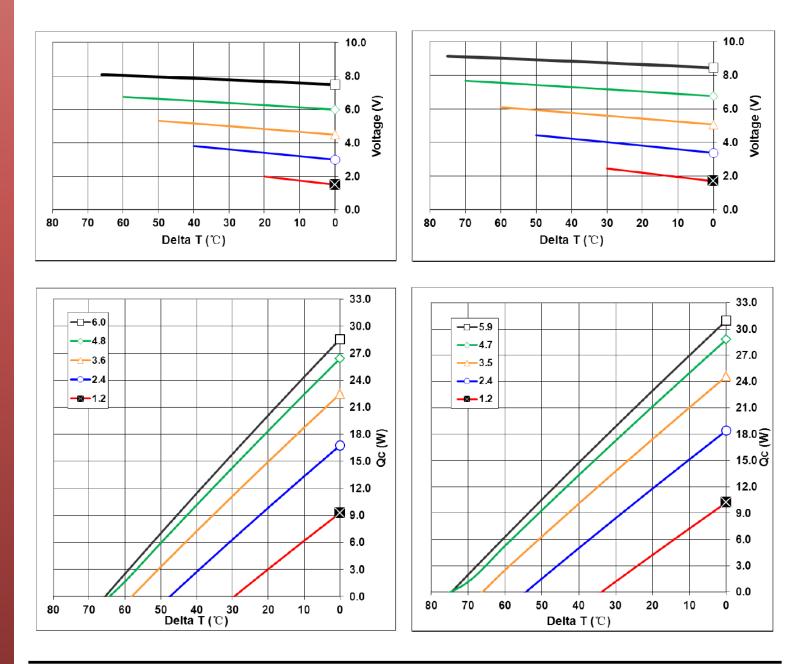
**Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C

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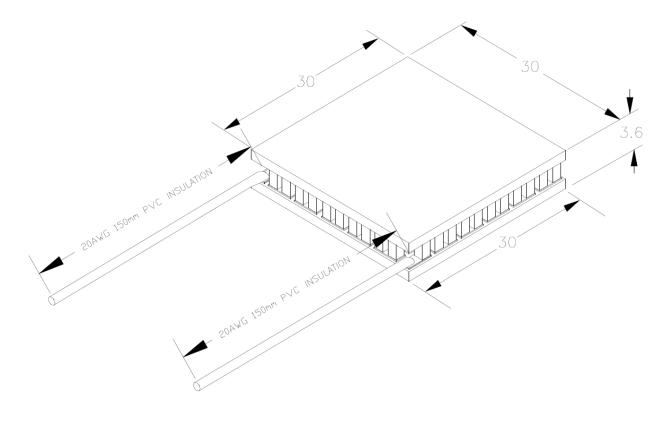
Performance Curves Th=50 °C



TEC-30-36-71



Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

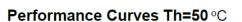
TEC-40-36-127

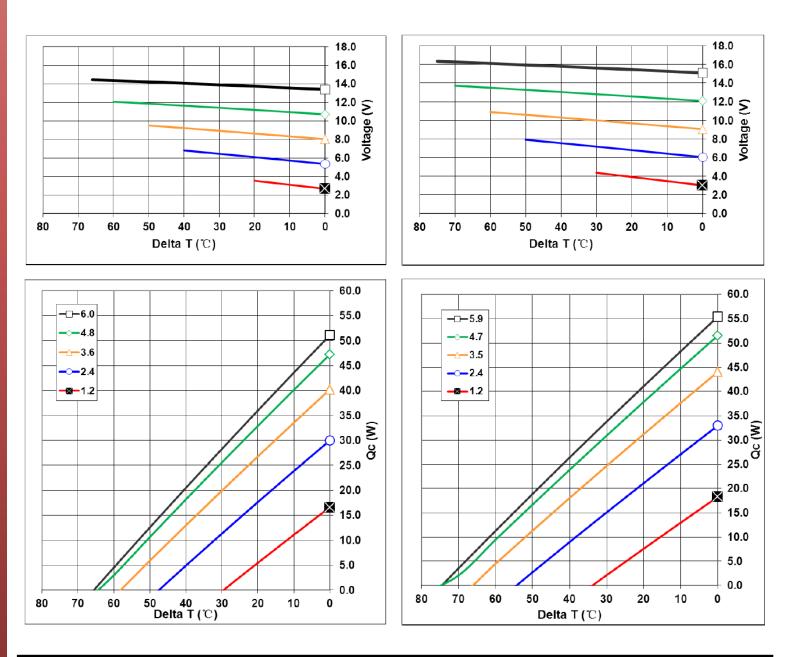
Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	51.4	55
Delta Tmax(ºC)	68	75
Imax (Amps)	6.0	6.0
Vmax (Volts)	15.4	16.4
ModuleResistance(Ohms)	2.17	2.54

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

Performance Curves Th=25 °C



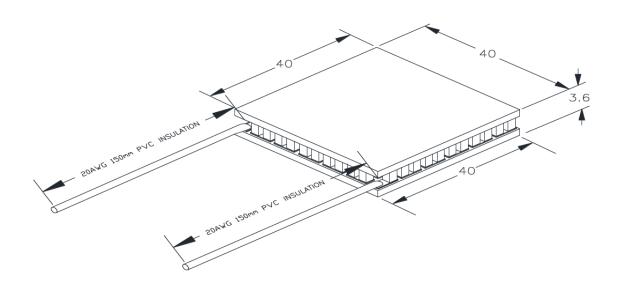




TEC-40-36-127



Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

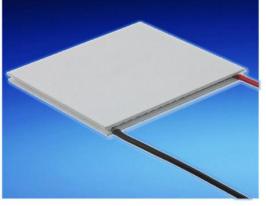
TEC-20-33-31

Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	16.8	20.3
Delta Tmax(ºC)	68	75
Imax (Amps)	8.5	8.5
Vmax (Volts)	3.75	4.1
ModuleResistance(Ohms)	0.38	0.42

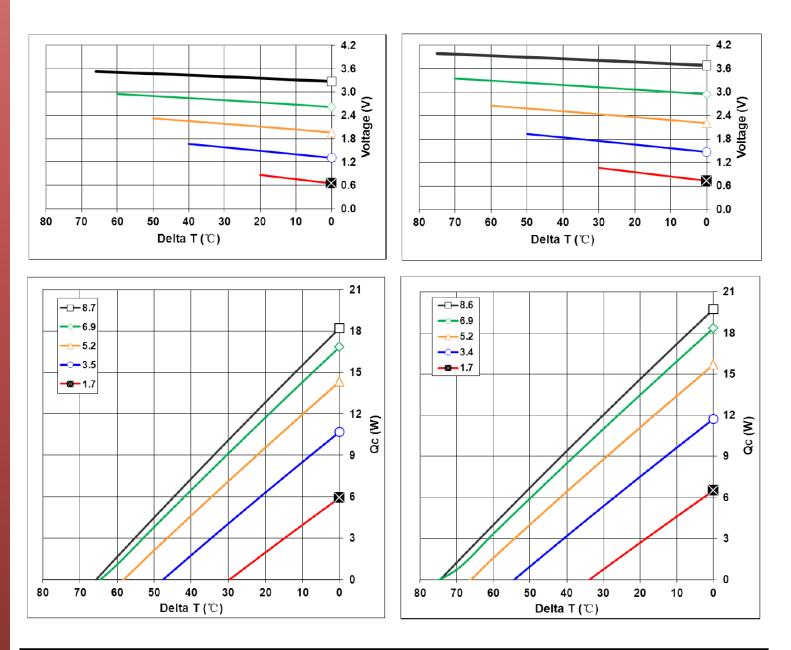
**Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C





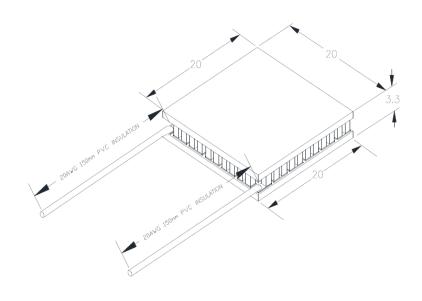
Performance Curves Th=50 °C



TEC-20-33-31



Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries

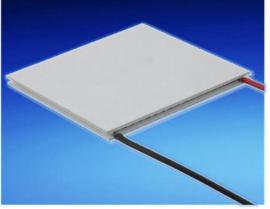
TEC-30-33-71

Hot SideTemperature(°C)	27 °C	50 °C
Qmax (Watts)	38.5	46
Delta Tmax(°C)	68	75
Imax (Amps)	8.5	8.5
Vmax (Volts)	8.6	9.6
ModuleResistance(Ohms)	0.86	0.97

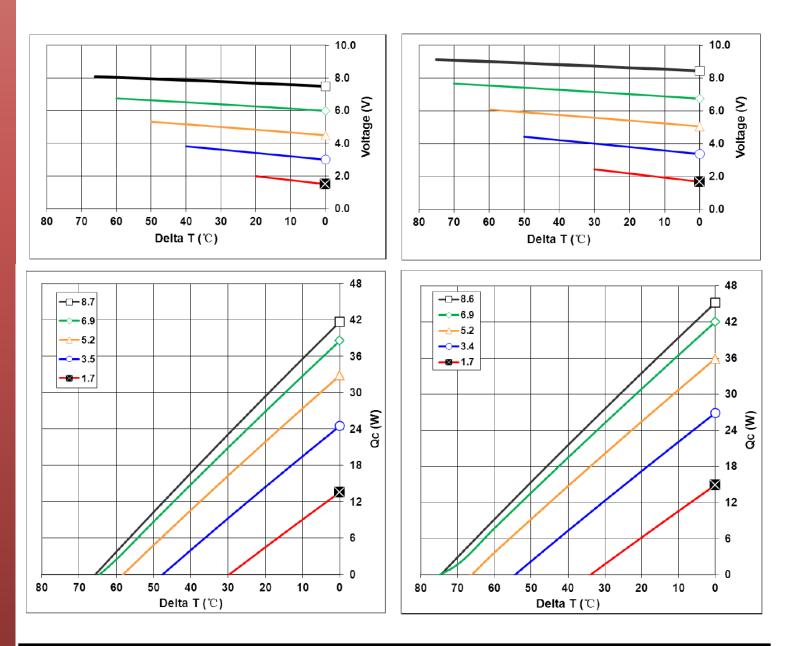
**Tolerances for thermal and electrical parameters ± 10%.

Performance Curves Th=25 °C





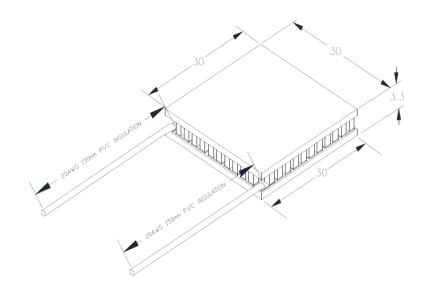
Performance Curves Th=50 °C



TEC-30-33-71

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Mechanical Drawing:



Operation Tips:

- Maximum Operating Temperature: 90°C
- Do not exceed Imax or Vmax when operating module
- Please consult Wakefield-Vette for moisture and corrosion protection options as well as specific application inquiries