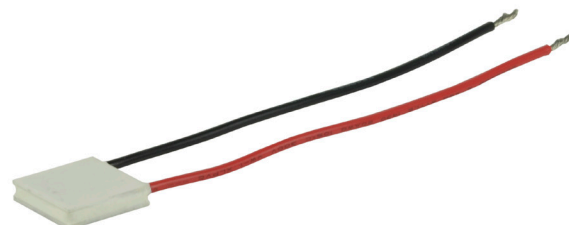




SERIES: CP85H | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure on select models
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ΔT max
- low profile
- precise temperature control
- solid state construction



| MODEL | input voltage ¹ | input current ² | internal resistance ³ | output Qmax ⁴ | | output ΔT max ⁵ | |
|---------------------------|----------------------------|----------------------------|----------------------------------|------------------------------|------------------------------|---|---|
| | max (Vdc) | max (A) | typ ($\Omega \pm 10\%$) | $T_h = 27^\circ\text{C}$ (W) | $T_h = 50^\circ\text{C}$ (W) | $T_h = 27^\circ\text{C}$ ($^\circ\text{C}$) | $T_h = 50^\circ\text{C}$ ($^\circ\text{C}$) |
| CP85134H | 2.1 | 8.5 | 0.2 | 10.3 | 11.3 | 70 | 77 |
| CP85153034H | 4.2 | 8.5 | 0.4 ⁷ | 21 | 23 | 70 | 77 |
| CP85234H | 3.8 | 8.5 | 0.35 | 18.8 | 20.8 | 70 | 77 |
| CP852040345H ⁶ | 7.6 | 8.5 | 0.75 | 38.2 | 42 | 70 | 77 |
| CP85301534H | 4.2 | 8.5 | 0.4 ⁷ | 21 | 23 | 70 | 77 |
| CP853345H ⁶ | 8.8 | 8.5 | 0.85 | 43.1 | 48 | 70 | 77 |
| CP854020345H ⁶ | 7.6 | 8.5 | 0.75 | 38.2 | 42 | 70 | 77 |
| CP854345H ⁶ | 15.7 | 8.5 | 1.5 | 77.1 | 85 | 70 | 77 |

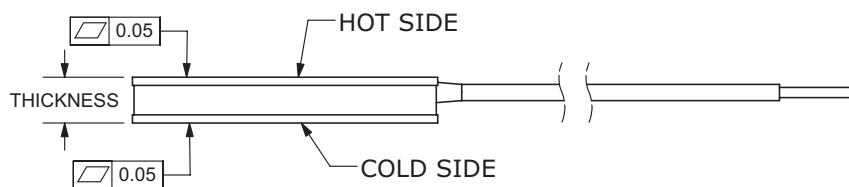
- Notes:
1. Maximum voltage at ΔT max and $T_h = 27^\circ\text{C}$
 2. Maximum current to achieve ΔT max
 3. Measured by AC 4-terminal method at 25°C
 4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T = 0^\circ\text{C}$
 5. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q = 0\text{W}$ (ΔT max measured in a vacuum at 1.3 Pa)
 6. Designed with arcTEC™ structure.
 7. Internal resistance tolerance is $\pm 12.5\%$

SPECIFICATIONS

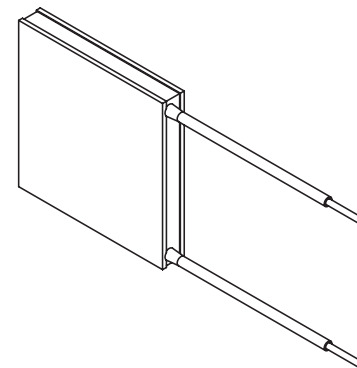
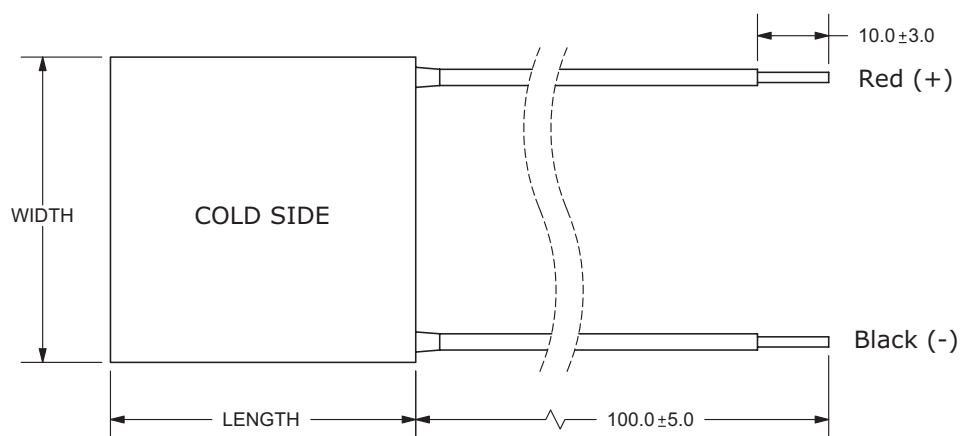
| parameter | conditions/description | min | typ | max | units |
|----------------------------|---|-----|-----|-----|-------|
| solder melting temperature | connection between thermoelectric pairs | 235 | | | °C |
| assembly compression | | | | 1 | MPa |
| hot side plate | | | | 80 | °C |
| RoHS | 2011/65/EU | | | | |

MECHANICAL DRAWING

units: mm

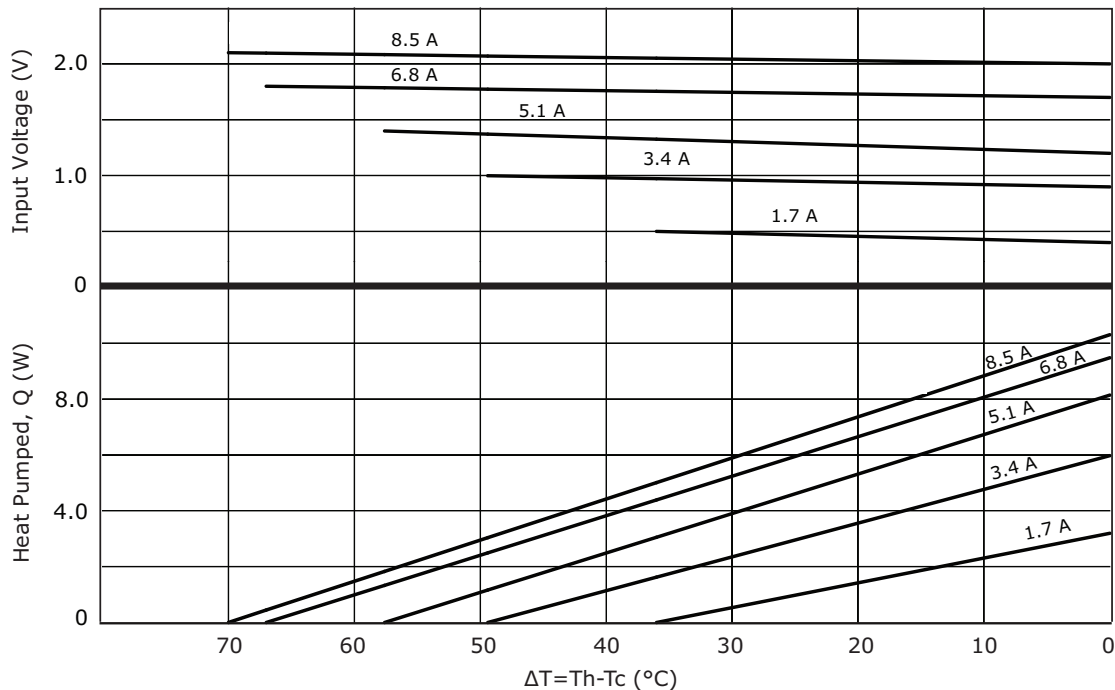


| | MATERIAL | PLATING |
|---------------|---|---------|
| ceramic plate | 96% AL ₂ O ₃ | |
| wire leads | 20 AWG | tin |
| sealer | silicon rubber 703 RTV (between cold and hot side plates) | |
| joint cover | silicon rubber 703 RTV | |
| marking | P/N & S/N printed on cold side surface | |

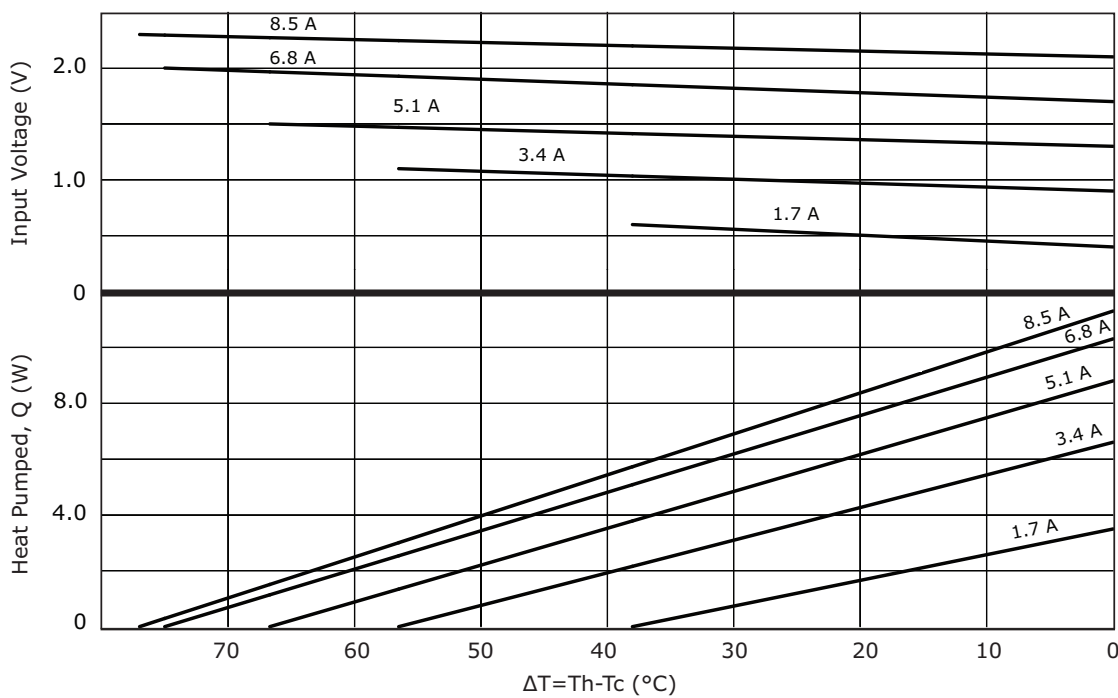


| MODEL NO. | LENGTH (mm) | WIDTH (mm) | THICKNESS (mm) |
|--------------|-------------|------------|----------------|
| CP85134H | 15 ±0.3 | 15 ±0.3 | 3.4 ±0.025 |
| CP85153034H | 15 ±0.3 | 30 ±0.3 | 3.4 ±0.025 |
| CP85234H | 20 ±0.3 | 20 ±0.3 | 3.4 ±0.025 |
| CP852040345H | 20 ±0.3 | 40 ±0.3 | 3.45 ±0.025 |
| CP85301534H | 30 ±0.3 | 15 ±0.3 | 3.4 ±0.025 |
| CP853345H | 30 ±0.3 | 30 ±0.3 | 3.45 ±0.025 |
| CP854020345H | 40 ±0.3 | 20 ±0.3 | 3.45 ±0.025 |
| CP854345H | 40 ±0.3 | 40 ±0.3 | 3.45 ±0.025 |

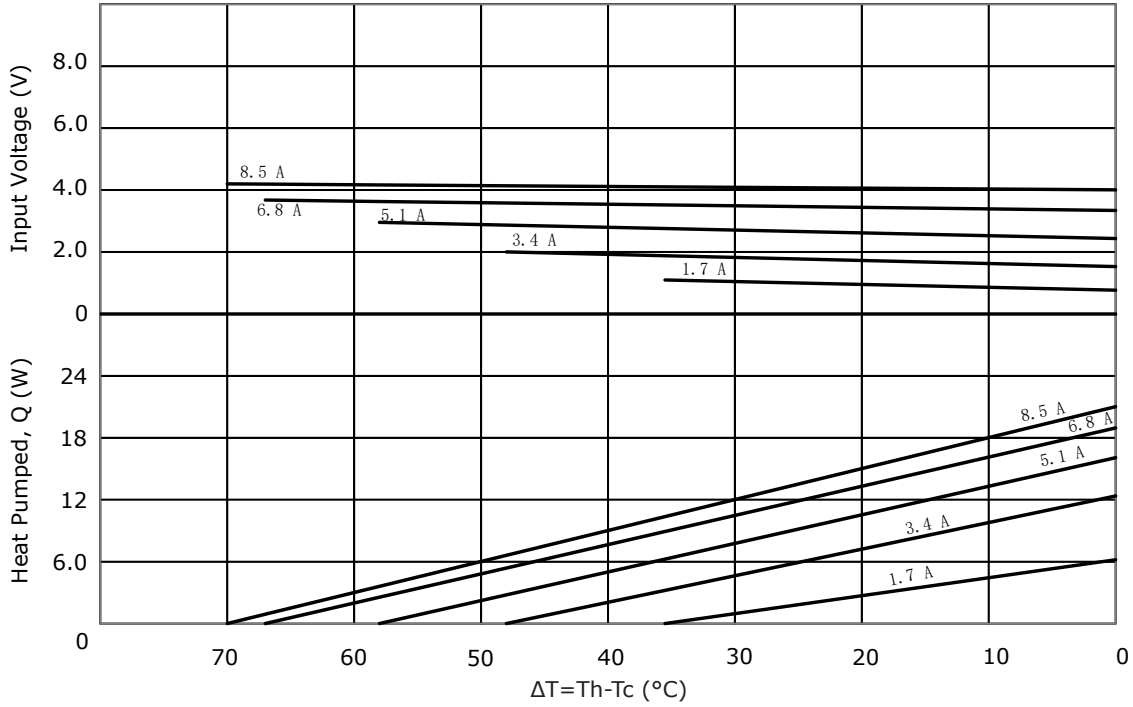
CP85134H PERFORMANCE (Th=27°C)



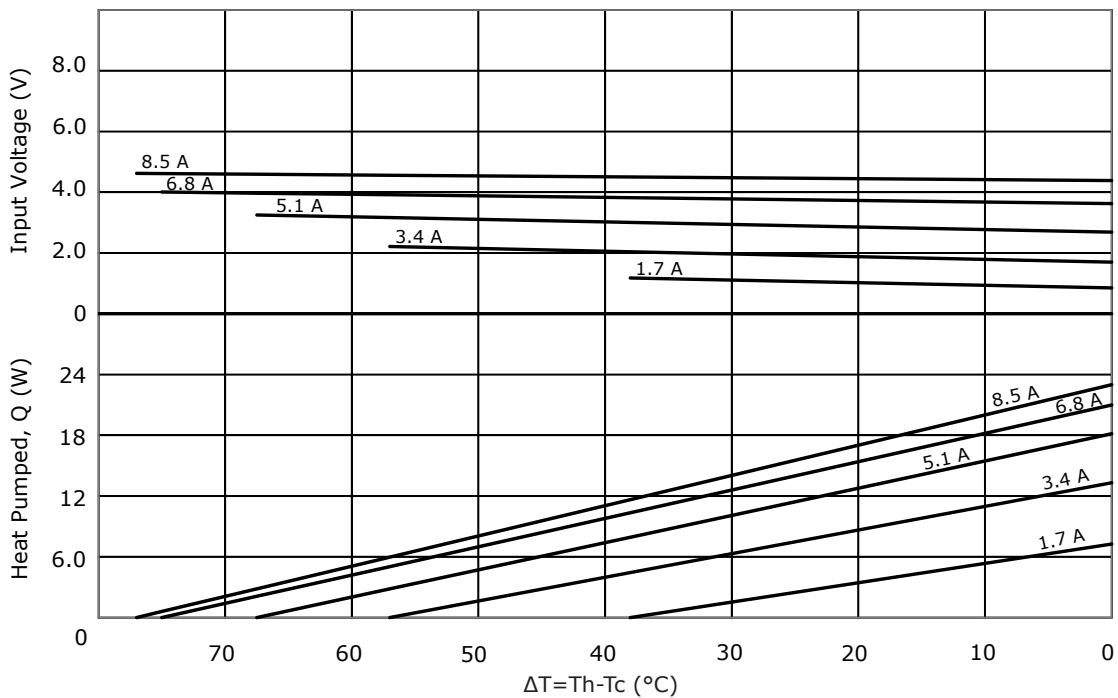
CP85134H PERFORMANCE (Th=50°C)



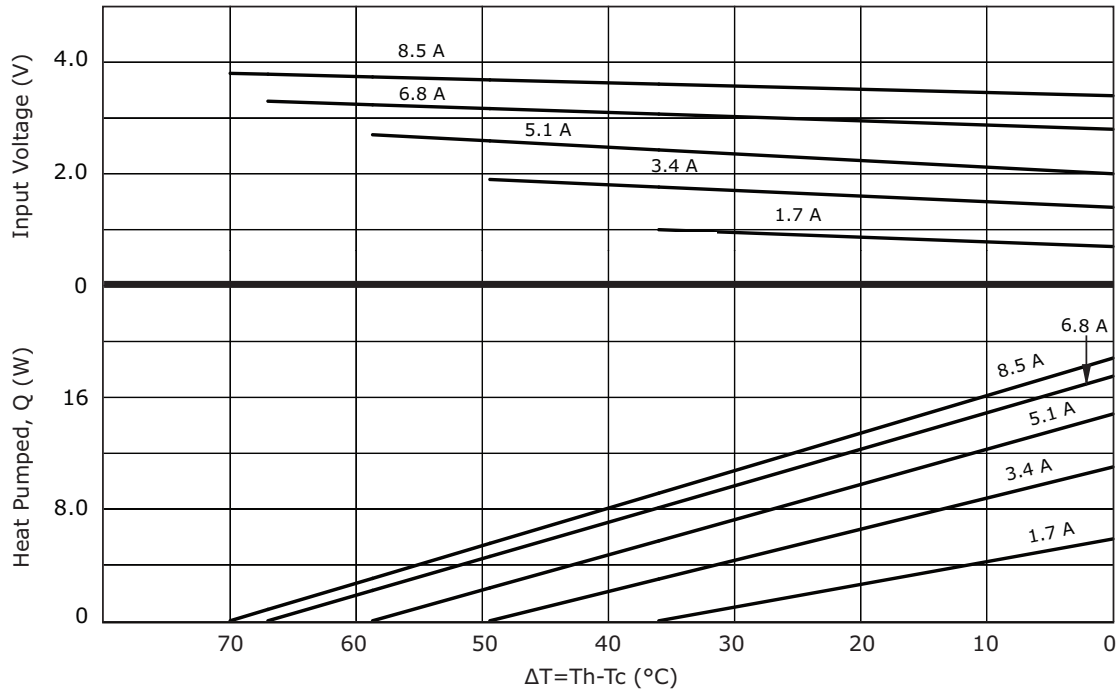
CP85153034H PERFORMANCE (Th=27°C)



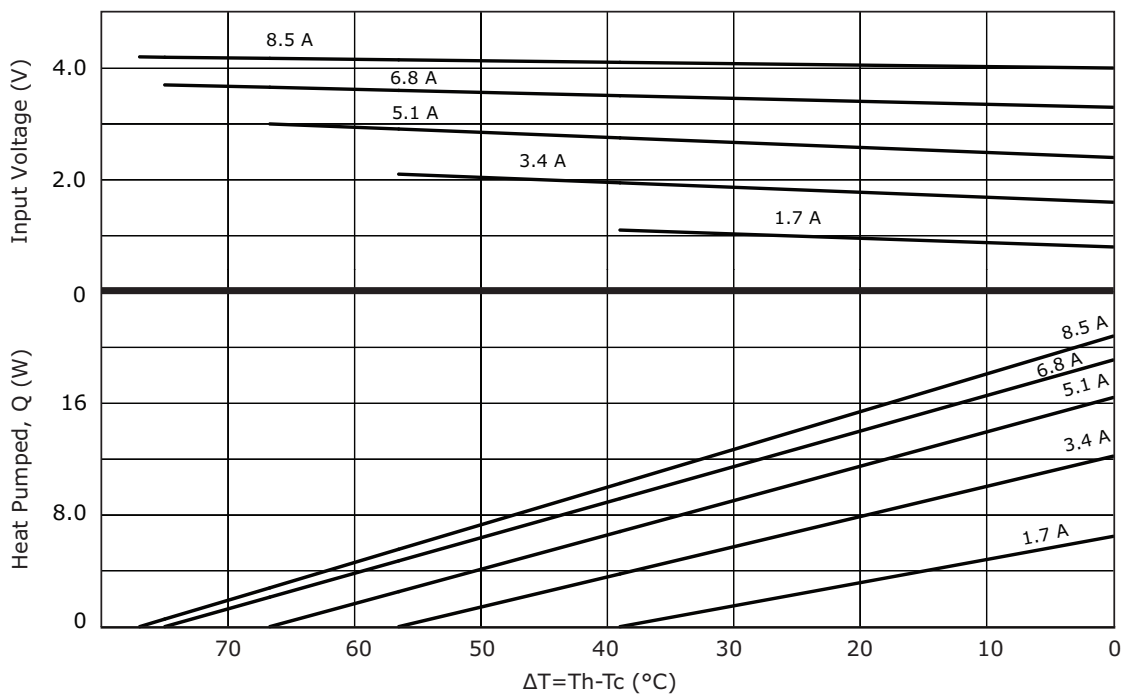
CP85153034H PERFORMANCE (Th=50°C)



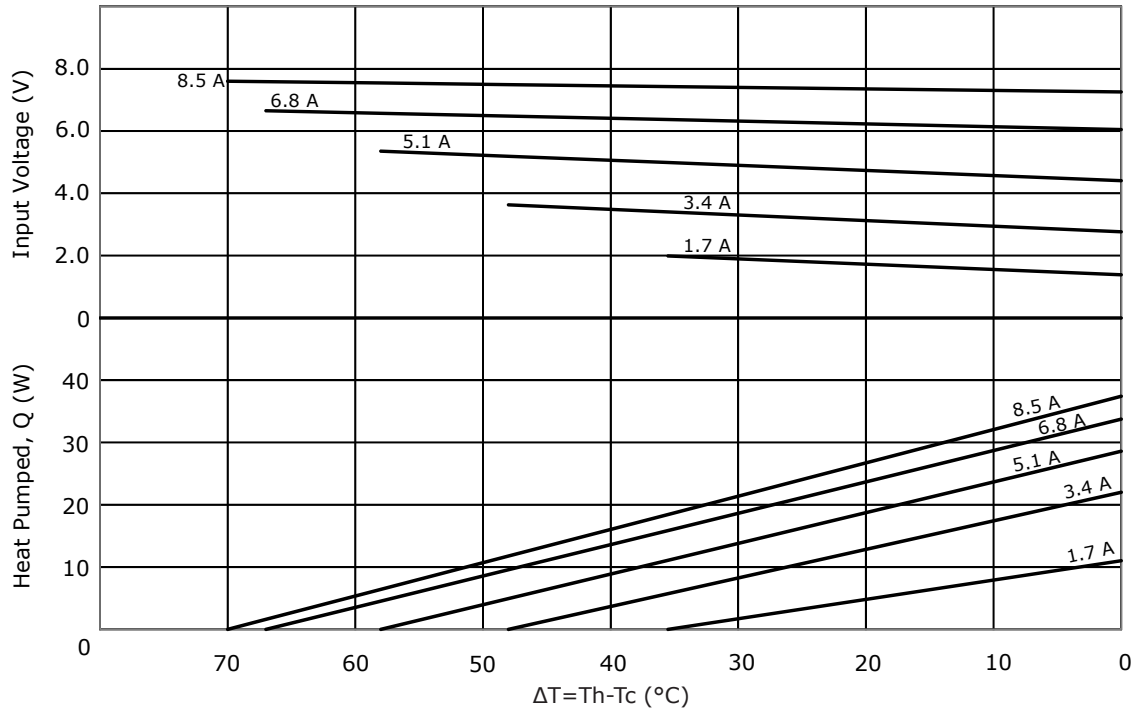
CP85234H PERFORMANCE (Th=27°C)



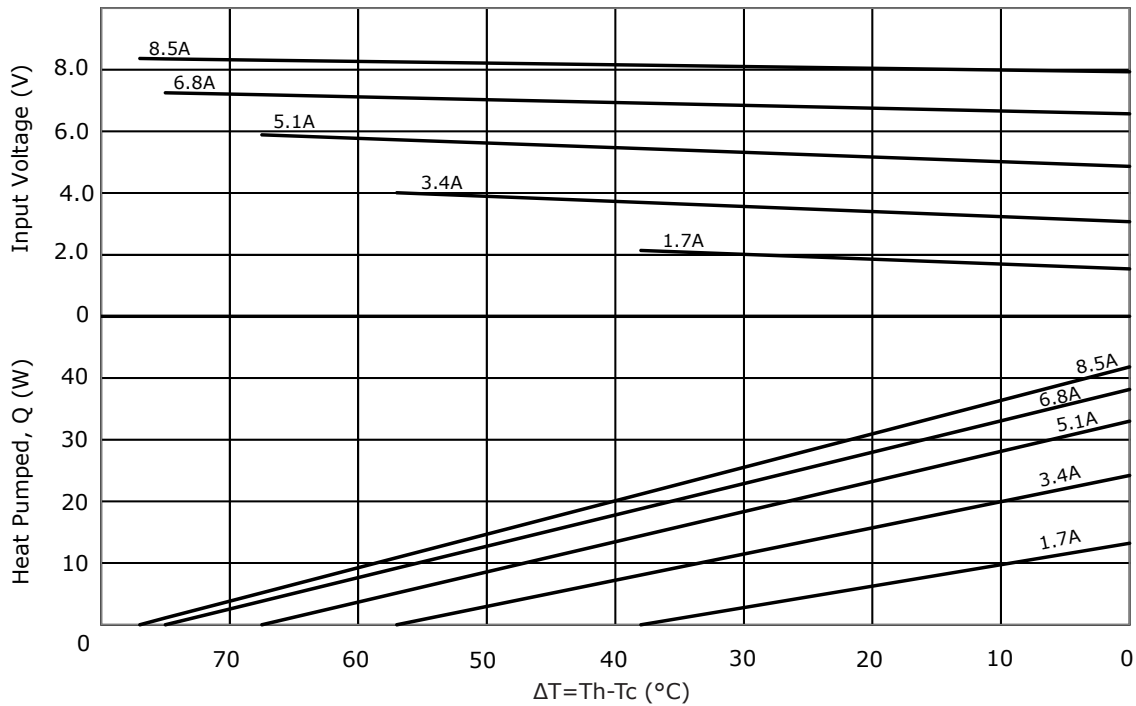
CP85234H PERFORMANCE (Th=50°C)



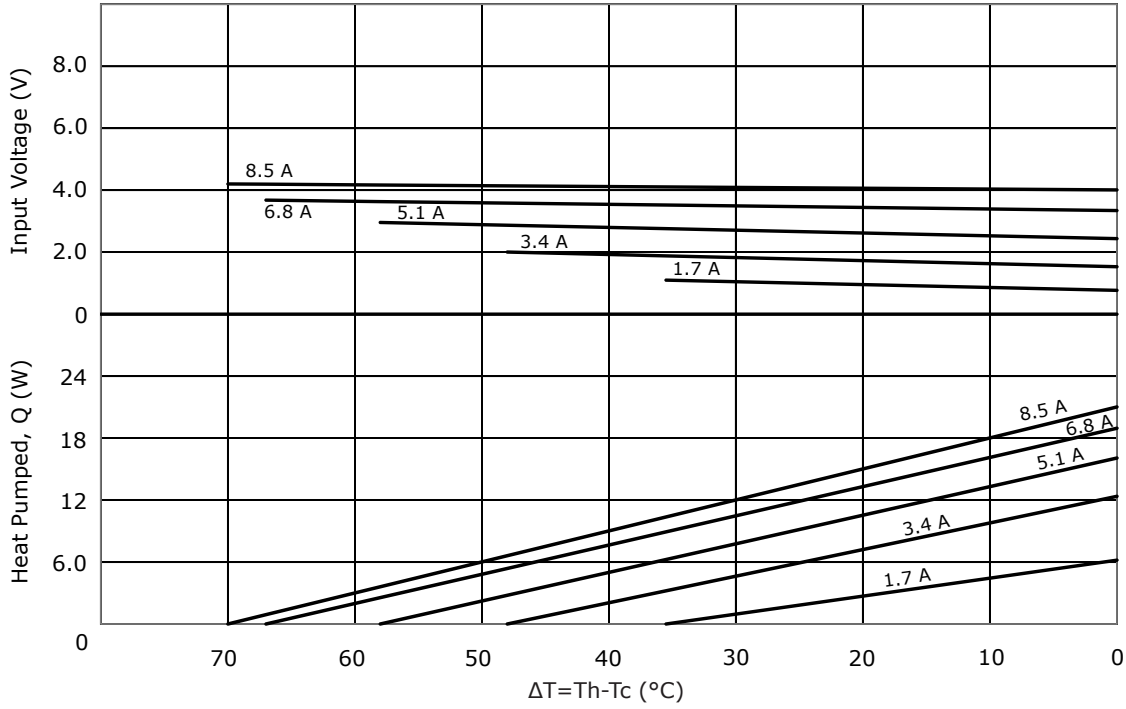
CP852040345H PERFORMANCE (Th=27°C)



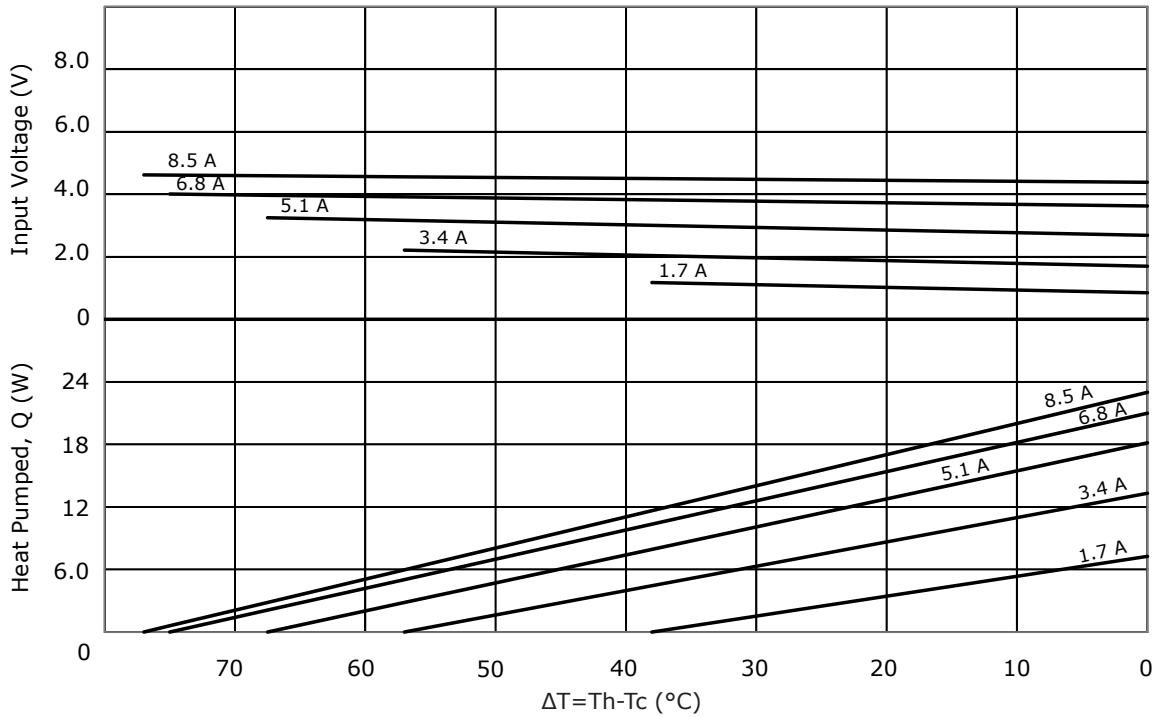
CP852040345H PERFORMANCE (Th=50°C)



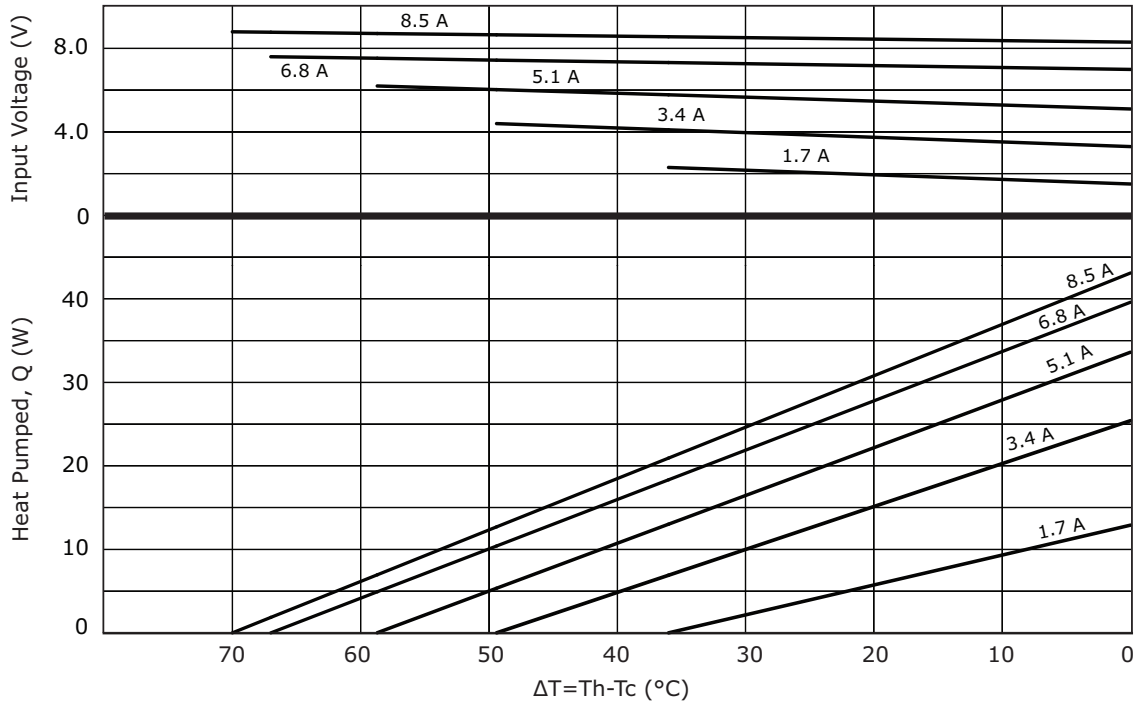
CP85301534H PERFORMANCE (Th=27°C)



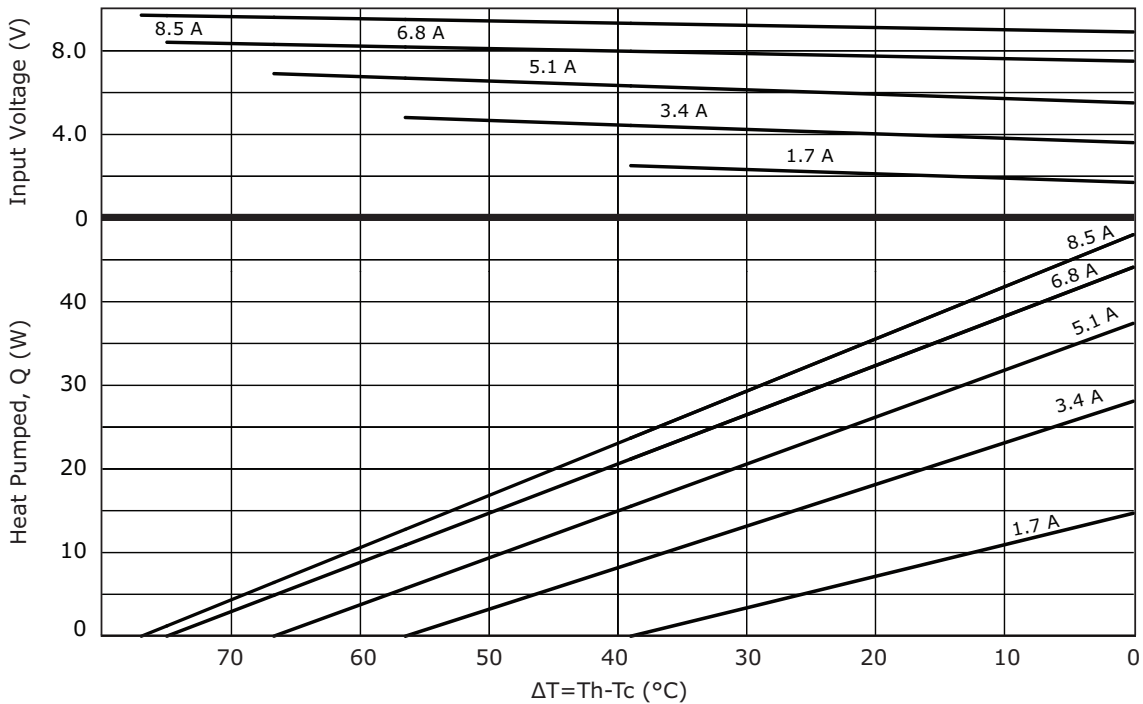
CP85301534H PERFORMANCE (Th=50°C)



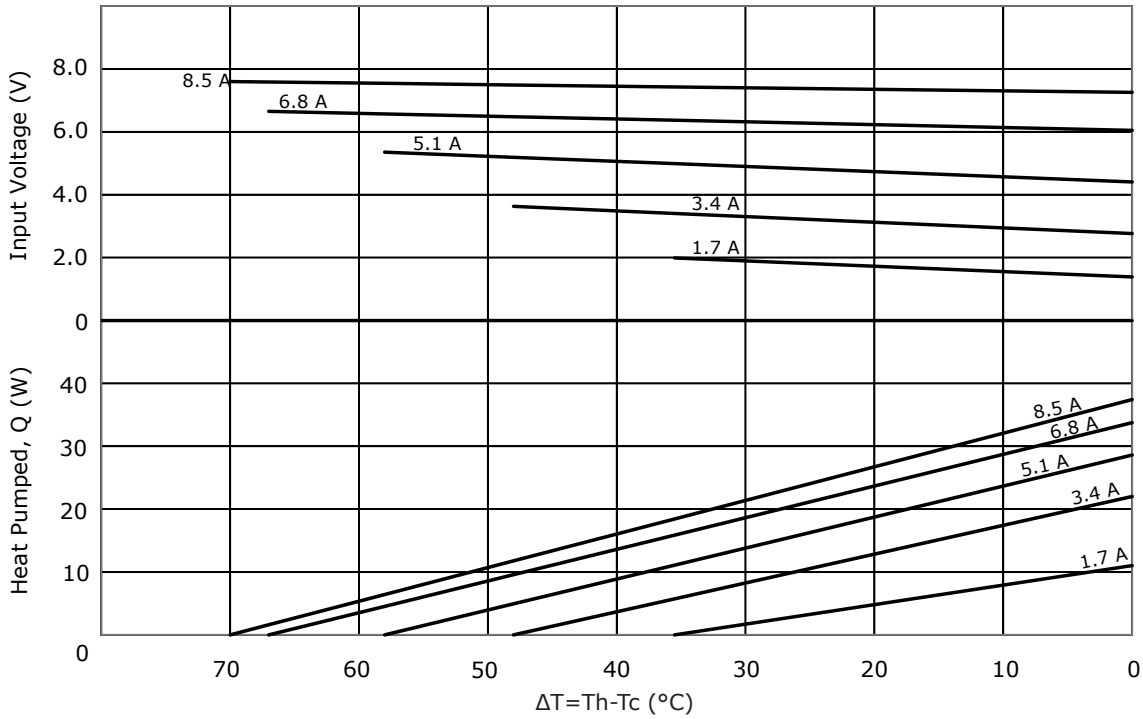
CP853345H PERFORMANCE (Th=27°C)



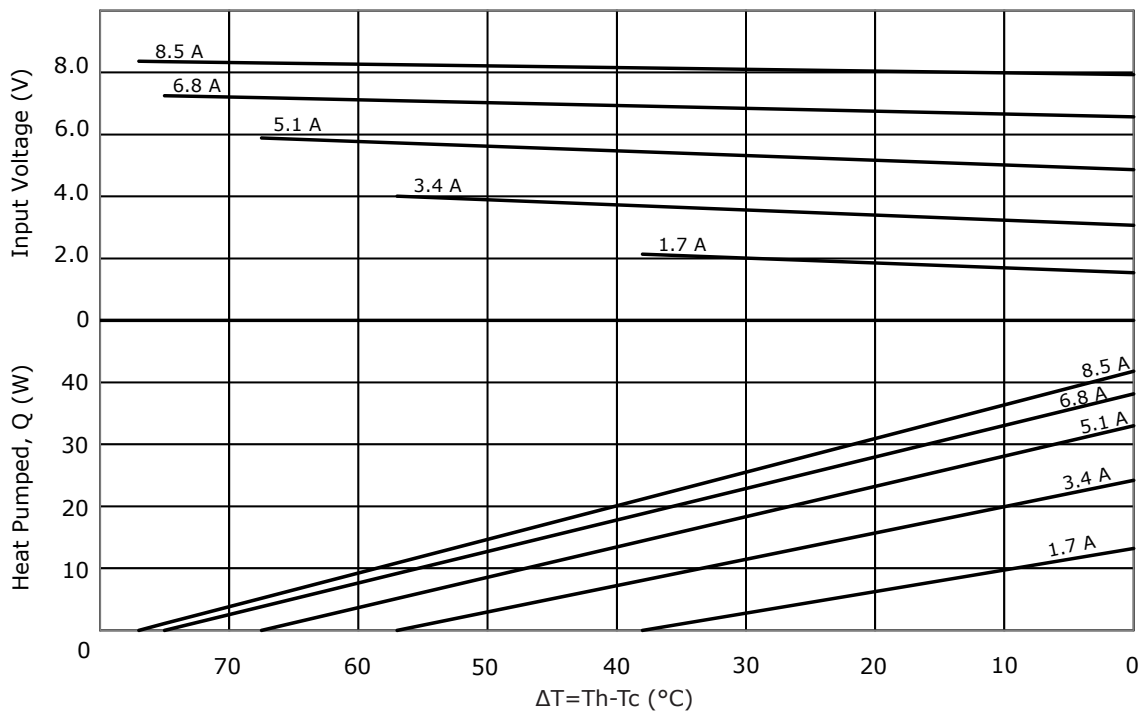
CP853345H PERFORMANCE (Th=50°C)



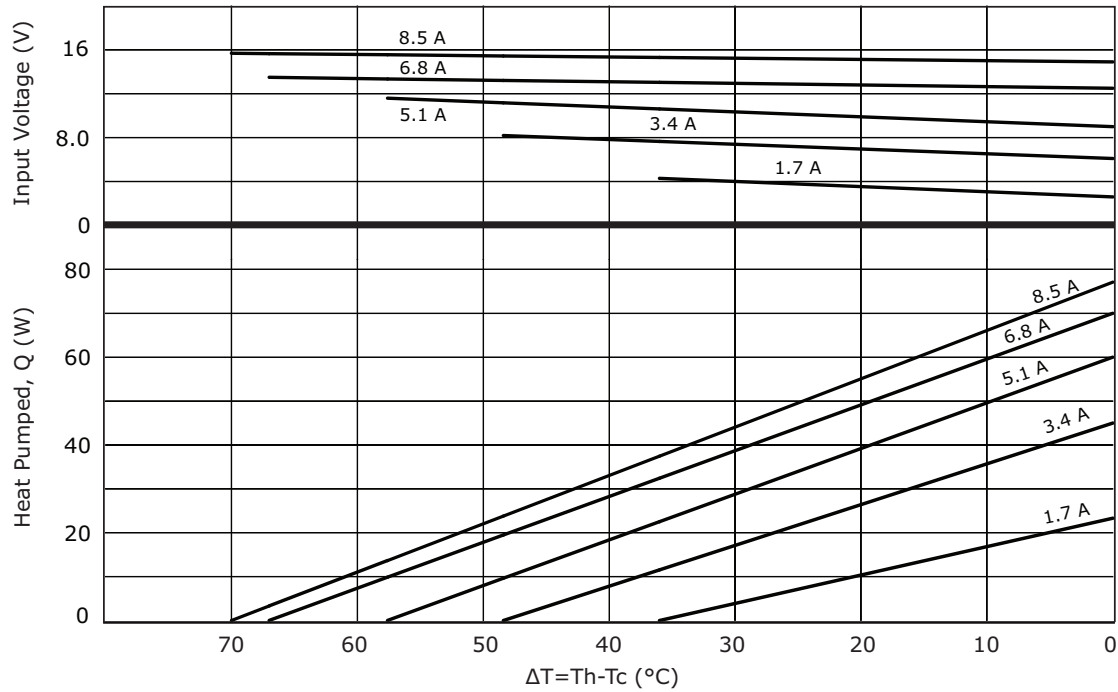
CP854020345H PERFORMANCE (Th=27°C)



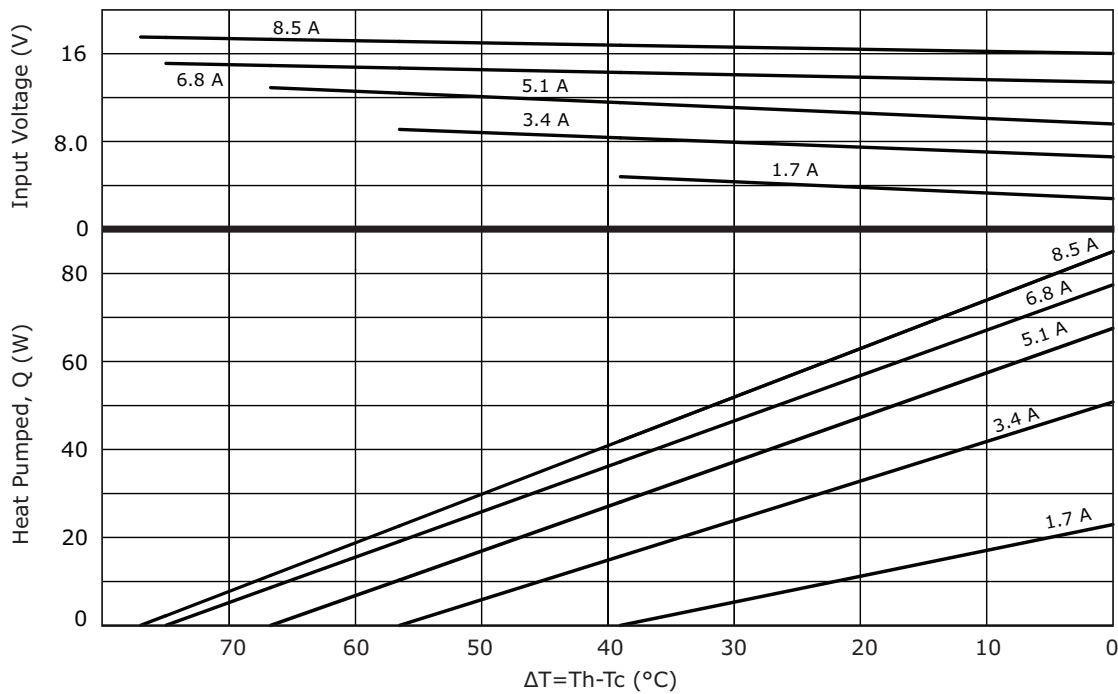
CP854020345H PERFORMANCE (Th=50°C)



CP854345H PERFORMANCE (Th=27°C)



CP854345H PERFORMANCE (Th=50°C)



REVISION HISTORY

| rev. | description | date |
|------|-------------------|------------|
| 1.0 | initial release | 09/08/2016 |
| 1.01 | updated datasheet | 09/25/2017 |
| 1.02 | added new models | 05/21/2018 |

The revision history provided is for informational purposes only and is believed to be accurate.

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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

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- 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.
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- Наличие сертификата ISO.

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- 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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