

# ICE50-R100X67-A1 - Heatsink

1118306

<https://www.phoenixcontact.com/us/products/1118306>

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Heatsink for housing series: ICS, material: Aluminum, anodized, product range: ICS50-..100X.., width: 67.4 mm, height: 50.1 mm, Individual milling possible.

## Your advantages

- Heatsinks enable the finished devices to be used in thermally demanding applications
- Extensive thermal simulations help achieve the optimum arrangement of components on the printed circuit board
- Customized heatsinks for reliable heat dissipation
- Simplified engineering process: all the services needed for your specific device design
- Tailored system solution comprised of a housing, connection technology, heatsink, and additional accessories

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1118306       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | AC09          |
| Product key                          | ACHAEF        |
| GTIN                                 | 4063151046705 |
| Weight per piece (including packing) | 325.7 g       |
| Weight per piece (excluding packing) | 249.67 g      |
| Customs tariff number                | 76169990      |
| Country of origin                    | CN            |

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## Technical data

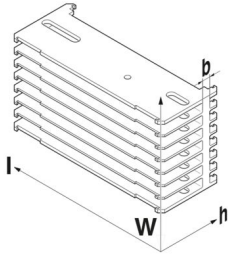
### Notes

|         |   |
|---------|---|
| General | Individual milling possible.  |
| General | Please observe the application note in the download area.                                     |
| General | The $R_{th}$ diagram shows the application, free-hanging (vertical) in the direction of flow. |

### Product properties

|                |                |
|----------------|----------------|
| Product type   | Heatsink       |
| Housing type   | Heatsink       |
| Housing series | ICS            |
| Product family | ICS50-..100X.. |

### Dimensions

|                          |  |
|--------------------------|--|
| Dimensional drawing      |  |
| Width                    | 67.4 mm  |
| Height                   | 50.1 mm  |
| Length                   | 105 mm   |
| Base panel thickness [b] | 5.8 mm   |

### Material specifications

|                             |   |
|-----------------------------|---|
| Color (Heatsink)            | aluminum color  |
| Material                    | Aluminum  |
| Surface characteristics     | anodized  |
| Thermal resistance $R_{th}$ | 1.58 K/W (At $\Delta T$ 65 K for ambient temperature)<br>2.91 K/W (At $\Delta T$ 5 K for ambient temperature) |

### Environmental and real-life conditions

#### Vibration test

|                        |                             |
|------------------------|-----------------------------|
| Specification          | IEC 60068-2-6:2007-12       |
| Frequency              | 10 - 150 - 10 Hz            |
| Sweep speed            | 1 octave/min                |
| Amplitude              | 0.15 mm (10 Hz ... 58.1 Hz) |
| Acceleration           | 2g (58.1 Hz ... 150 Hz)     |
| Test duration per axis | 2.5 h                       |

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|                 |                   |
|-----------------|-------------------|
| Test directions | X-, Y- and Z-axis |
|-----------------|-------------------|

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Specification                  | IEC 60068-2-27:2008-02            |
| Pulse shape                    | Semi-sinusoidal                   |
| Acceleration                   | 15g                               |
| Shock duration                 | 11 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |

## Test for substances that would hinder coating with paint or varnish

|               |                    |
|---------------|--------------------|
| Specification | VDMA 24364:2018-05 |
| Result        | Test passed        |

## Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 55 °C |
| Ambient temperature (assembly)          | -5 °C ... 100 °C |

## Mounting

|               |      |
|---------------|------|
| Mounting type | Slot |
|---------------|------|

## Packaging specifications

|                   |               |
|-------------------|---------------|
| Type of packaging | Box packaging |
|-------------------|---------------|

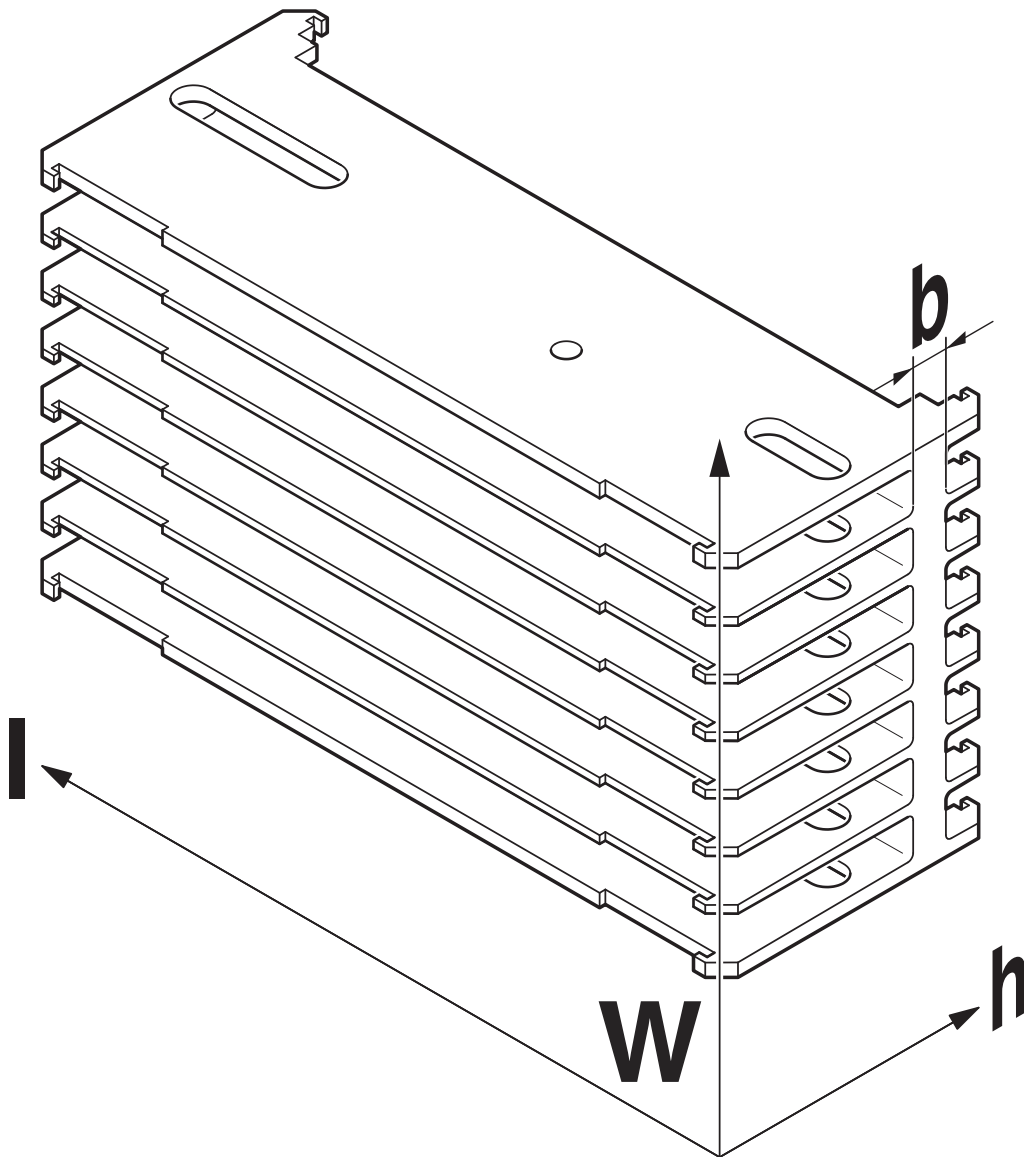
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## Drawings

Dimensional drawing



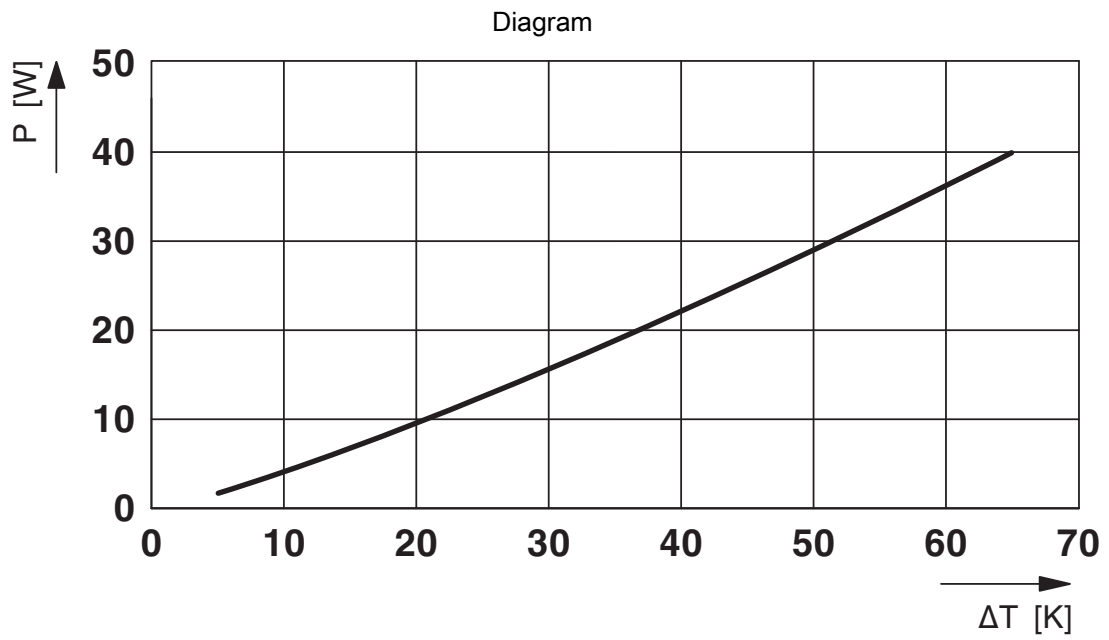
Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27260501 |
| ECLASS-15.0 | 27260501 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32131000 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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