



MODEL:

HSB18-232310

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DESCRIPTION:

HEAT SINK

FEATURES

- BGA design
- top mount
- aluminum alloy
- black anodized finish



MODEL

|              | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup> |
|--------------|---------------------------------|------------------------|-----------------------|-----------------------|--------------------------------|
|              | @ 75°C ΔT, nat conv [°C/W]      | @ 1 W, nat conv [°C/W] | @ 1 W, 200 LFM [°C/W] | @ 1 W, 400 LFM [°C/W] | @ 75°C ΔT, nat conv [W]        |
| HSB18-232310 | 20.41                           | 24.0                   | 6.8                   | 4.7                   | 3.67                           |

Note:

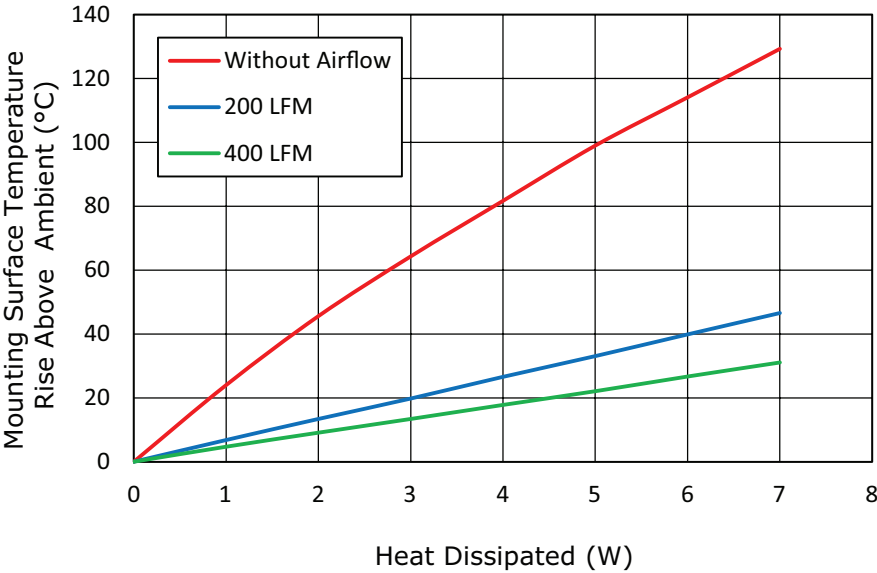
1. See performance curves for full thermal resistance details.

PERFORMANCE CURVES

| Power [W] | Heatsink Temperature Rise Above Ambient (ΔT = T <sub>hs</sub> - T <sub>a</sub> ) [°C] |         |         |
|-----------|---------------------------------------------------------------------------------------|---------|---------|
|           | Natural Conv.                                                                         | 200 LFM | 400 LFM |
| 0         | 0                                                                                     | 0       | 0       |
| 1         | 24.0                                                                                  | 6.8     | 4.7     |
| 2         | 45.6                                                                                  | 13.4    | 9.1     |
| 3         | 64.3                                                                                  | 19.8    | 13.4    |
| 4         | 81.7                                                                                  | 26.6    | 17.8    |
| 5         | 99.0                                                                                  | 33.1    | 22.1    |
| 6         | 114.1                                                                                 | 39.9    | 26.7    |
| 7         | 129.3                                                                                 | 46.6    | 31.1    |

T<sub>hs</sub>: "hot spot" temperature measured on the heatsink

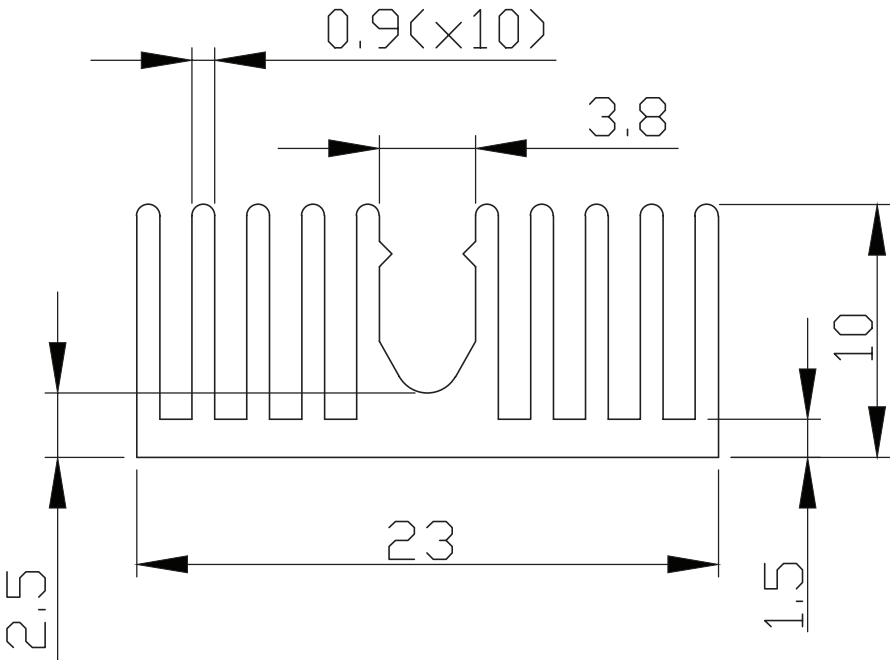
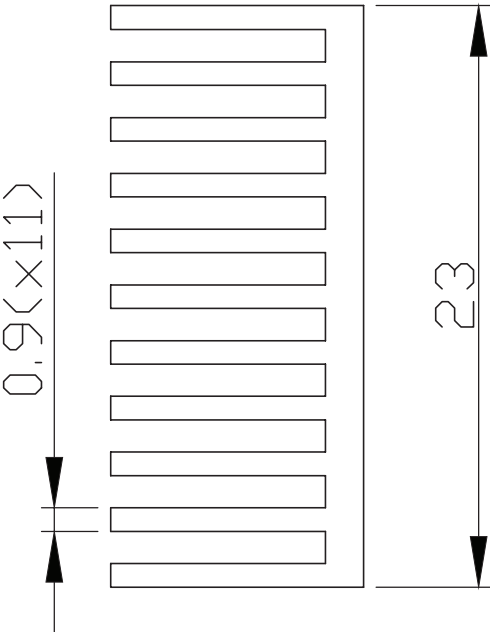
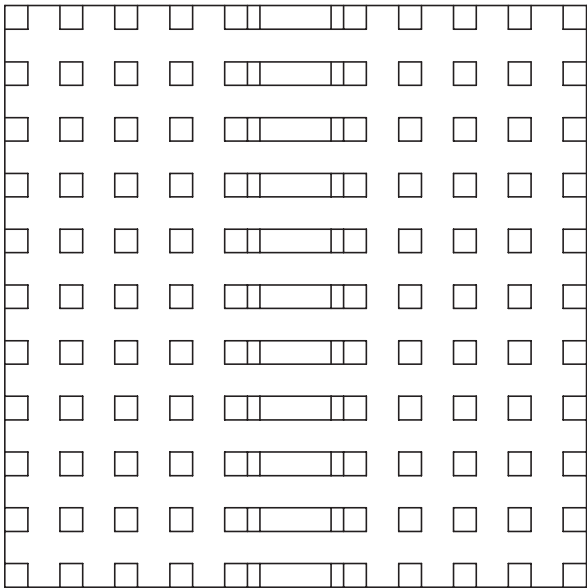
T<sub>a</sub>: ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.38 mm

|          |                |
|----------|----------------|
| MATERIAL | AL 6063-T5     |
| FINISH   | black anodized |
| WEIGHT   | 4.8 g          |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/24/2021 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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