

**MODEL:** HSS24-B20-NP | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 or TO-218 package
- bolt on attachment
- aluminum alloy

**MODEL**

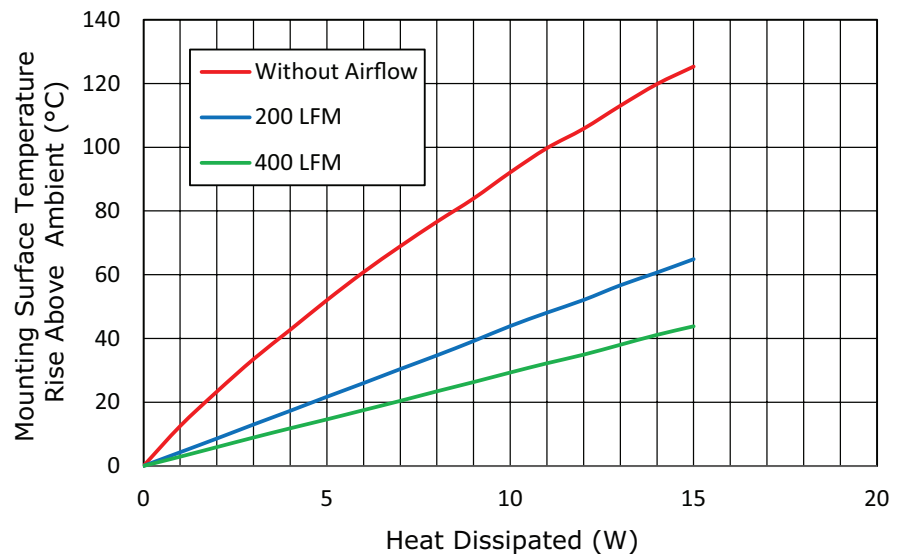
|              | thermal resistance <sup>1</sup>     |                        |                       |                       | power dissipation <sup>1</sup>   |
|--------------|-------------------------------------|------------------------|-----------------------|-----------------------|----------------------------------|
|              | @ 75°C $\Delta T$ , nat conv [°C/W] | @ 1 W, nat conv [°C/W] | @ 1 W, 200 LFM [°C/W] | @ 1 W, 400 LFM [°C/W] | @ 75°C $\Delta T$ , nat conv [W] |
| HSS24-B20-NP | 9.56                                | 12.5                   | 4.3                   | 2.9                   | 7.85                             |

Note: 1. See performance curves for full thermal resistance details.

**PERFORMANCE CURVES**

| Power [W] | Heatsink Temperature Rise Above Ambient ( $\Delta T = T_{hs} - T_a$ ) [°C] |         |         |
|-----------|----------------------------------------------------------------------------|---------|---------|
|           | Natural Conv.                                                              | 200 LFM | 400 LFM |
| 0         | 0                                                                          | 0       | 0       |
| 1         | 12.5                                                                       | 4.3     | 2.9     |
| 2         | 23.3                                                                       | 8.6     | 5.9     |
| 3         | 33.5                                                                       | 13.0    | 8.9     |
| 4         | 42.7                                                                       | 17.3    | 11.8    |
| 5         | 52.0                                                                       | 21.7    | 14.6    |
| 6         | 60.8                                                                       | 26.0    | 17.5    |
| 7         | 68.9                                                                       | 30.4    | 20.4    |
| 8         | 76.6                                                                       | 34.7    | 23.4    |
| 9         | 83.9                                                                       | 39.2    | 26.3    |
| 10        | 92.1                                                                       | 43.9    | 29.3    |
| 11        | 99.7                                                                       | 48.1    | 32.2    |
| 12        | 105.8                                                                      | 52.1    | 34.9    |
| 13        | 113.0                                                                      | 56.7    | 38.0    |
| 14        | 119.8                                                                      | 60.7    | 41.1    |
| 15        | 125.3                                                                      | 64.9    | 43.8    |

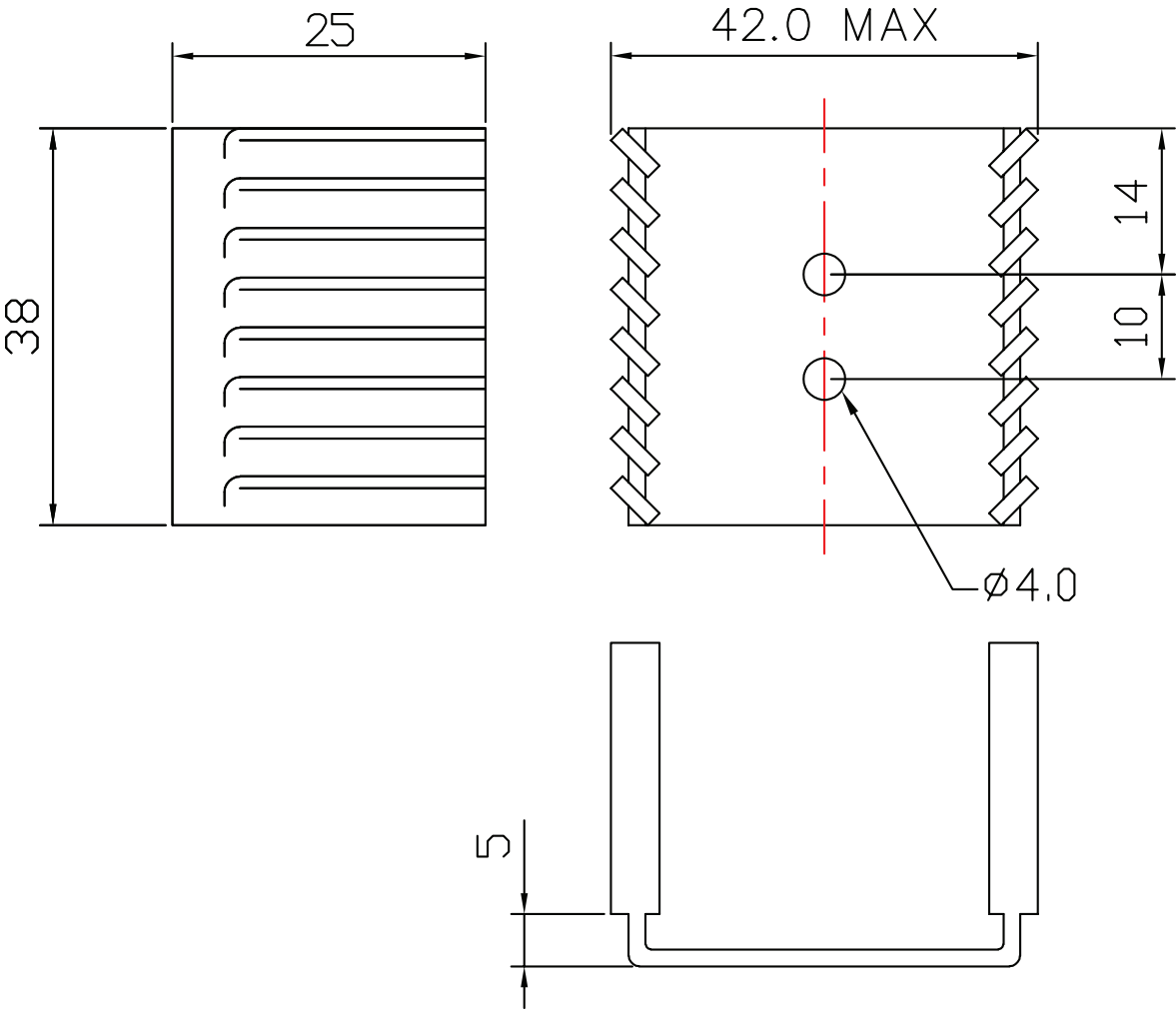
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|           |                |
|-----------|----------------|
| MATERIAL  | AL 1050        |
| FINISH    | black anodized |
| THICKNESS | 1.5 mm         |
| WEIGHT    | 15.8 g         |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 04/22/2022 |
| 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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