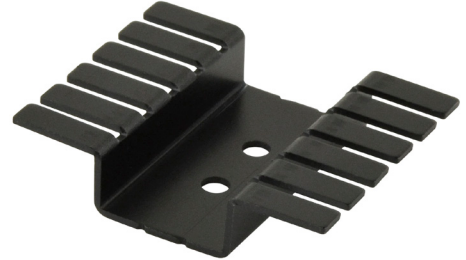


**MODEL:** HSS-B20-NP-04 | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 package
- round hole for component attachment
- two hole options for longer component pins
- black anodized finish

**MODEL**

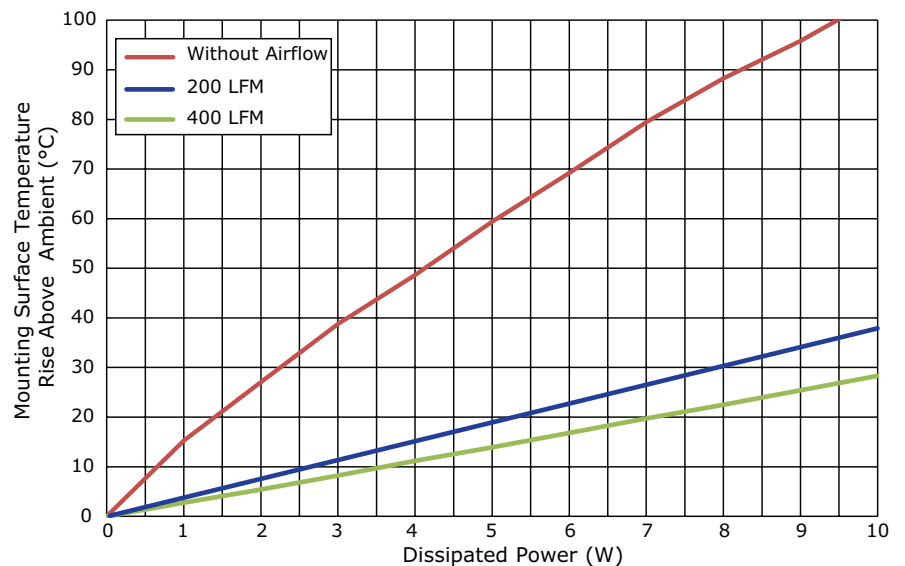
|               | thermal resistance <sup>1</sup>     |                        |                       |                       | power dissipation <sup>1</sup>   |
|---------------|-------------------------------------|------------------------|-----------------------|-----------------------|----------------------------------|
|               | @ 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] |
| HSS-B20-NP-04 | 11.54                               | 15.27                  | 3.76                  | 2.74                  | 6.50                             |

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         | 15.27                                                                      | 3.76    | 2.74    |
| 2         | 27.05                                                                      | 7.51    | 5.43    |
| 3         | 38.74                                                                      | 11.26   | 8.23    |
| 4         | 48.62                                                                      | 15.04   | 11.17   |
| 5         | 59.41                                                                      | 18.81   | 13.89   |
| 6         | 69.24                                                                      | 22.56   | 16.83   |
| 7         | 79.43                                                                      | 26.28   | 19.71   |
| 8         | 88.27                                                                      | 30.18   | 22.48   |
| 9         | 95.85                                                                      | 33.95   | 25.41   |
| 10        | 104.56                                                                     | 37.87   | 28.29   |

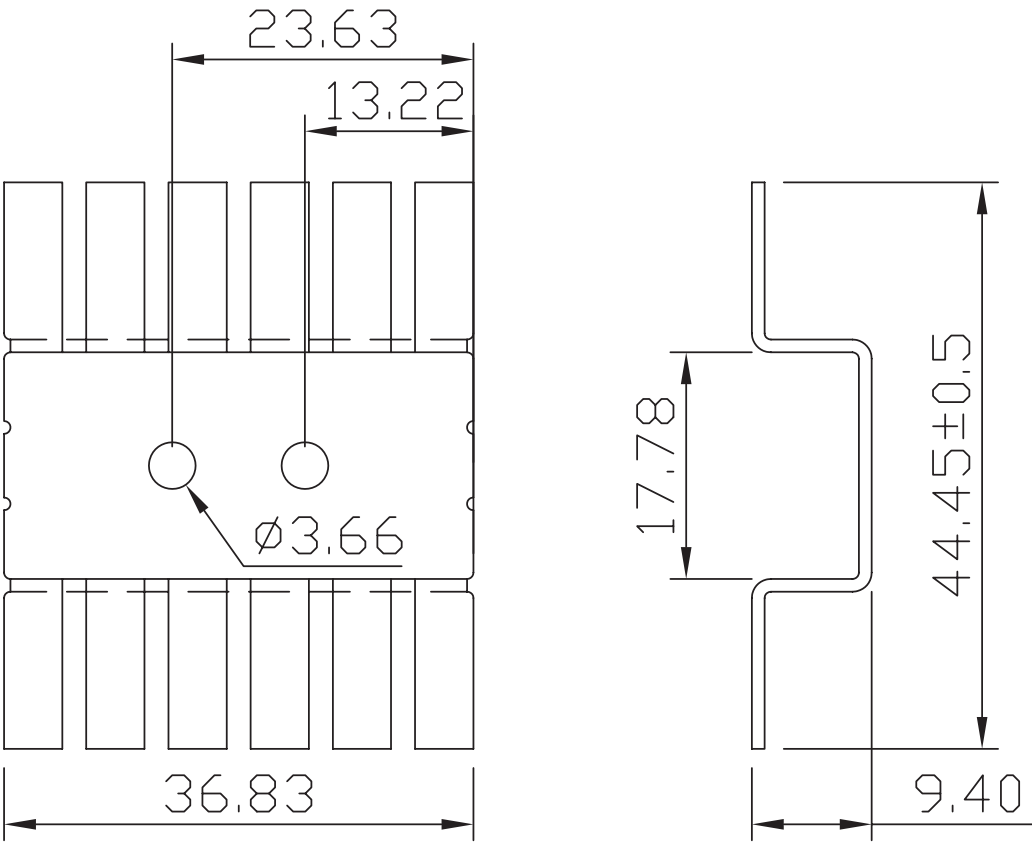
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|           |                |
|-----------|----------------|
| MATERIAL  | AL1050         |
| FINISH    | black anodized |
| THICKNESS | 1.0 mm         |
| WEIGHT    | 5.7 g          |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 04/03/2017 |
| 1.01 | brand update                      | 02/13/2020 |
| 1.02 | logo, datasheet style update      | 08/05/2022 |
| 1.03 | 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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