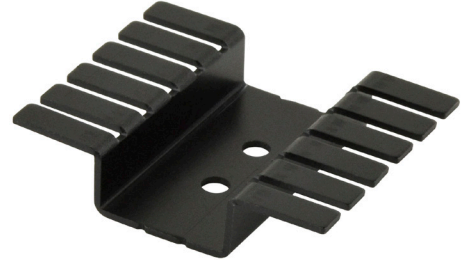




## MODEL: HSS-B20-NP-04 | DESCRIPTION: HEAT SINK

### FEATURES

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



### MODEL

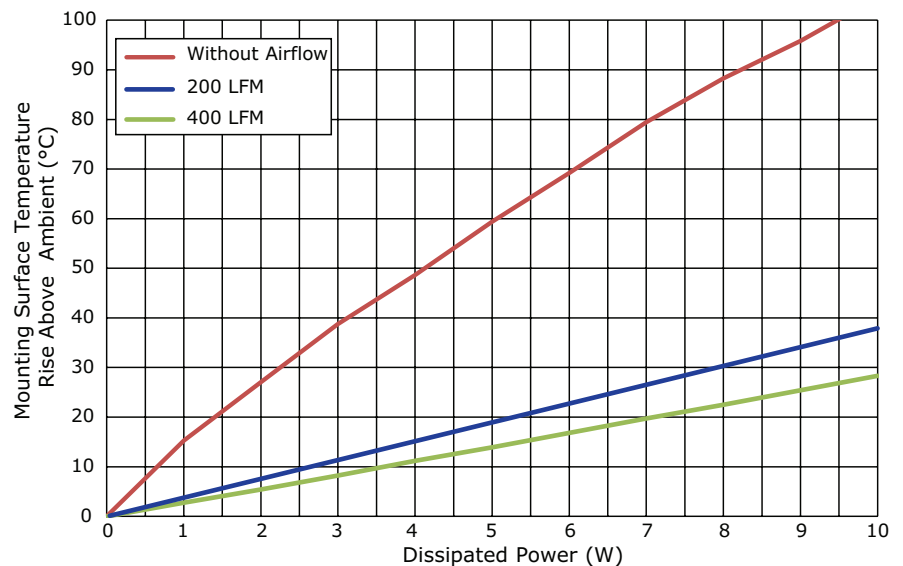
|               | thermal resistance <sup>1</sup>  |                              |                             |                             | power dissipation <sup>1</sup> |
|---------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------------|
|               | @ 75°C ΔT,<br>nat conv<br>(°C/W) | @ 1 W,<br>nat conv<br>(°C/W) | @ 1 W,<br>200 LFM<br>(°C/W) | @ 1 W,<br>400 LFM<br>(°C/W) | @ 75°C ΔT,<br>nat conv<br>(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 (ΔT = T <sub>hs</sub> - T <sub>a</sub> ) (°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   |

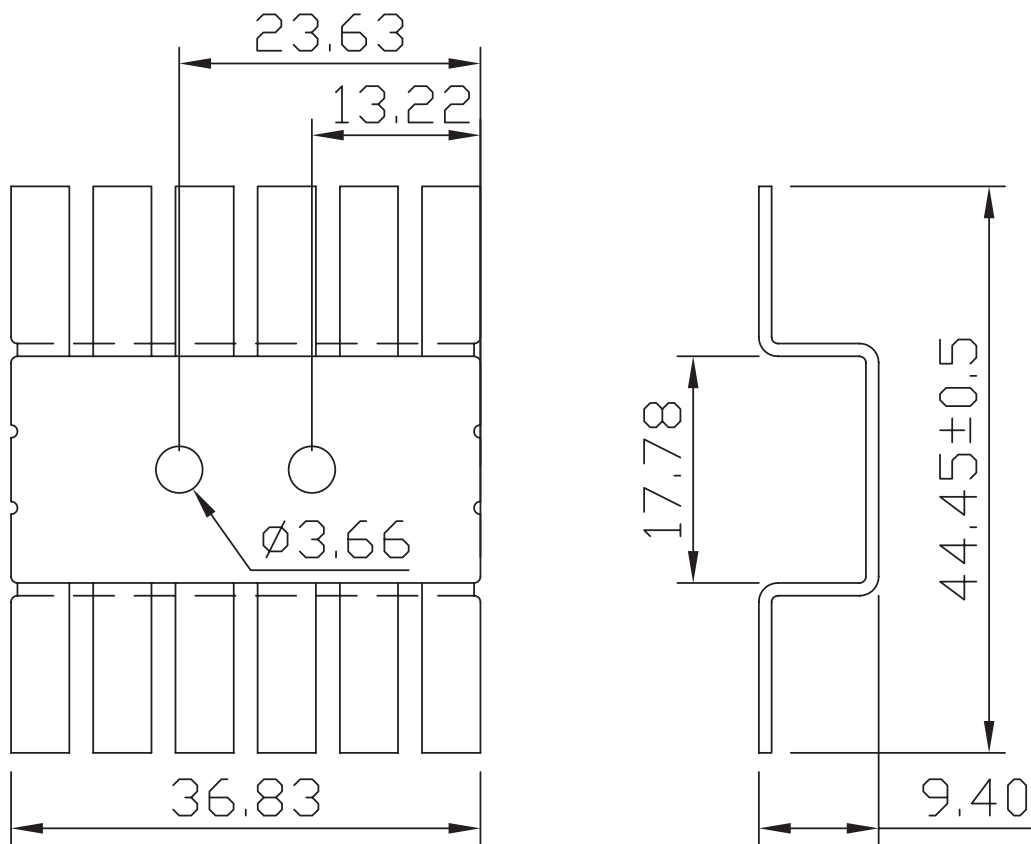
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature



## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  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 |

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

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

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