

**MODEL:** HSS-B20-NP-12 | **DESCRIPTION:** HEAT SINK**FEATURES**

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

**MODEL**

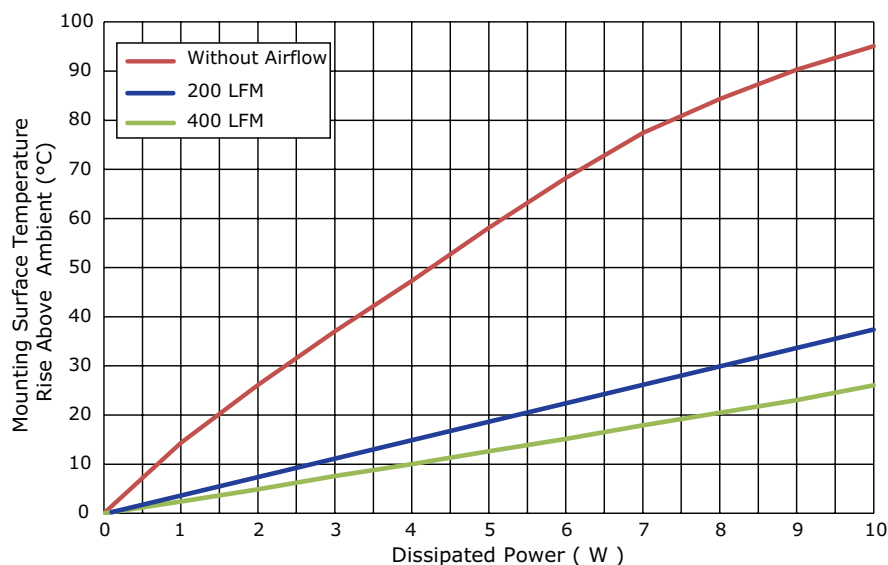
|               | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup><br>@ 75°C ΔT, nat conv [W] |
|---------------|---------------------------------|------------------------|-----------------------|-----------------------|-----------------------------------------------------------|
|               | @ 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] |                                                           |
| HSS-B20-NP-12 | 11.03                           | 14.33                  | 3.47                  | 2.42                  | 6.80                                                      |

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         | 14.33                                                                                 | 3.47    | 2.42    |
| 2         | 26.13                                                                                 | 7.20    | 4.89    |
| 3         | 37.06                                                                                 | 11.03   | 7.60    |
| 4         | 47.31                                                                                 | 14.48   | 10.02   |
| 5         | 58.11                                                                                 | 18.05   | 12.62   |
| 6         | 68.23                                                                                 | 21.56   | 15.13   |
| 7         | 77.41                                                                                 | 25.39   | 17.88   |
| 8         | 84.32                                                                                 | 29.25   | 20.46   |
| 9         | 90.32                                                                                 | 32.97   | 23.03   |
| 10        | 95.09                                                                                 | 37.42   | 26.04   |

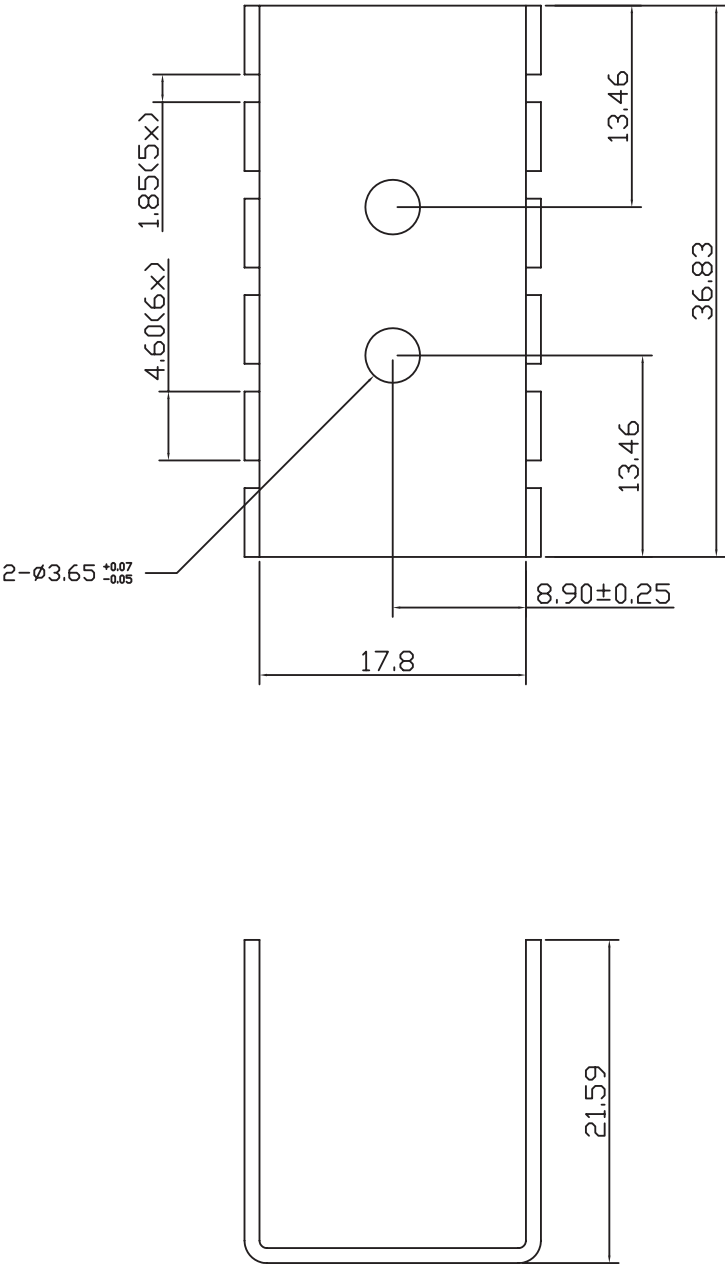
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|           |                |
|-----------|----------------|
| MATERIAL  | AL1100         |
| FINISH    | black anodized |
| THICKNESS | 1.0 mm         |
| WEIGHT    | 5.0 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 |

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



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