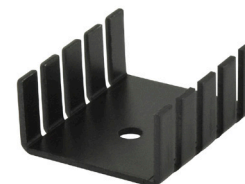


**SERIES:** HSS-B20-NPX-01 | **DESCRIPTION:** HEAT SINK

**FEATURES**

- TO-220 package
- round or slot hole attachment options
- black anodized finish
- aluminum



**MODEL**

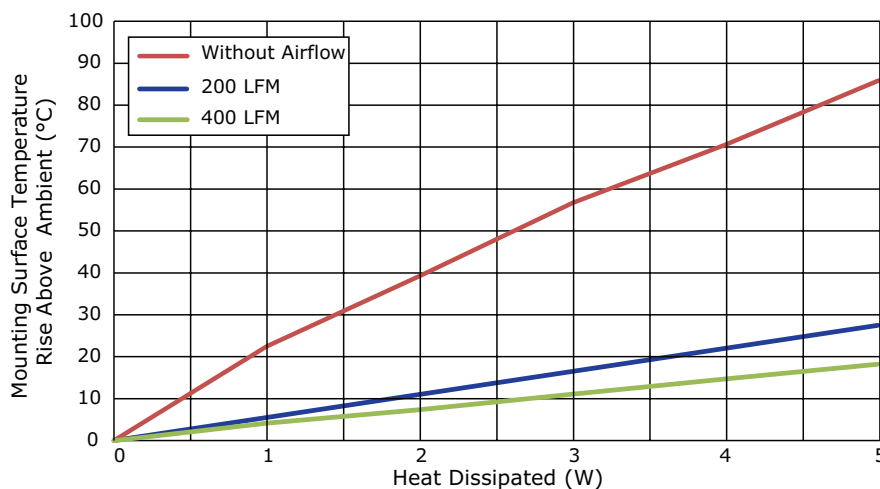
|                | mounting hole |              | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup> |
|----------------|---------------|--------------|---------------------------------|------------------------|-----------------------|-----------------------|--------------------------------|
|                | type          | size<br>[mm] | @ 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]        |
| HSS-B20-NPR-01 | round         | ∅3.81        | 17.74                           | 22.47                  | 5.88                  | 4.17                  | 4.23                           |
| HSS-B20-NPS-01 | slot          | 3.9 x 9.52   | 17.74                           | 22.47                  | 5.88                  | 4.17                  | 4.23                           |

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

**PERFORMANCE CURVES**

| Power [W] | Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) [°C] |         |         |
|-----------|--|---------|---------|
|           | Natural Conv.  | 200 LFM | 400 LFM |
| 0         | 0  | 0       | 0       |
| 1         | 22.47  | 5.88    | 4.17    |
| 2         | 39.28  | 11.26   | 7.41    |
| 3         | 56.71  | 16.66   | 11.08   |
| 4         | 70.54  | 21.77   | 14.72   |
| 5         | 85.88  | 27.51   | 18.27   |

Ths: "hot spot" temperature measured on the heatsink  
Ta: ambient temperature

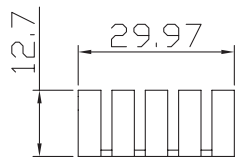
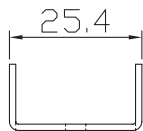
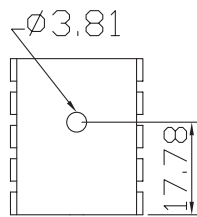


## MECHANICAL DRAWING

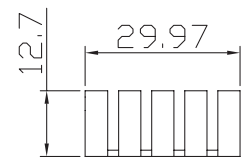
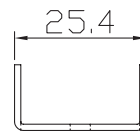
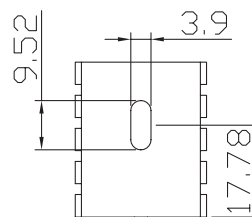
units: mm  
tolerance: ±0.5 mm

|           |  |
|-----------|--|
| MATERIAL  | AL1050   |
| FINISH    | black anodized                                 |
| THICKNESS | 1.2 mm   |
| WEIGHT    | HSS-B20-NPR-01: 4.3 g<br>HSS-B20-NPS-01: 4.3 g |

**HSS-B20-NPR-01**



**HSS-B20-NPS-01**



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 03/30/2017 |
| 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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