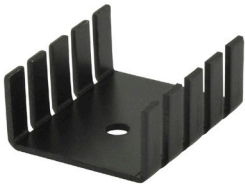




SERIES: HSS-B20-NPX-01 | DESCRIPTION: HEAT SINK

FEATURES

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



MODEL

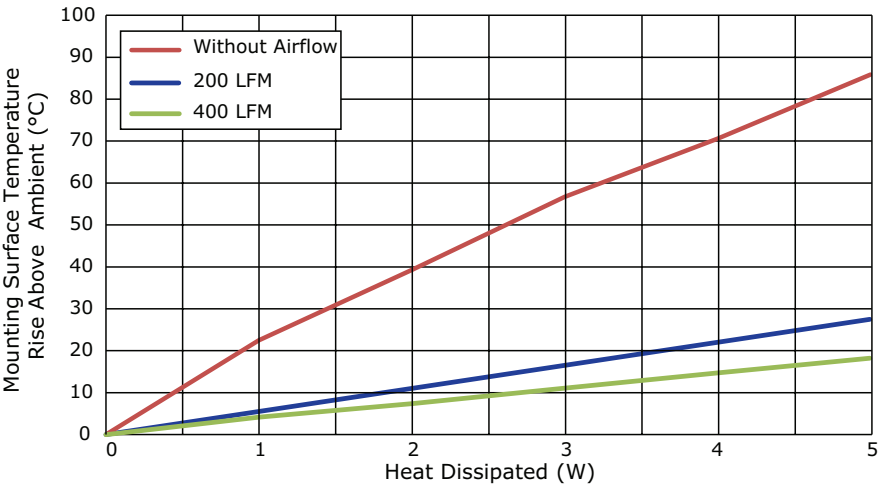
|                | mounting hole |              | thermal resistance <sup>1</sup> |                              |                             |                             | power dissipation <sup>1</sup> |
|----------------|---------------|--------------|---------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------------|
|                | type          | size<br>[mm] | @ 75°C ΔT, nat<br>conv [°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, nat<br>conv [W]     |
| HSS-B20-NPR-01 | round         | Ø3.81        | 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<br>[W] | Heatsink Temperature Rise Above<br>Ambient (ΔT = Ths - Ta) [°C] |         |         |
|--------------|-----------------------------------------------------------------|---------|---------|
|              | Natural<br>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

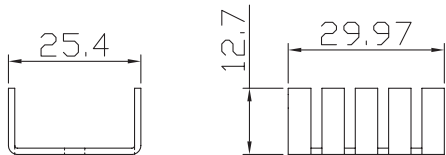
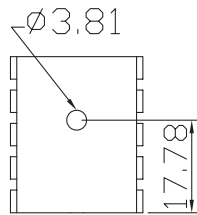


MECHANICAL DRAWING

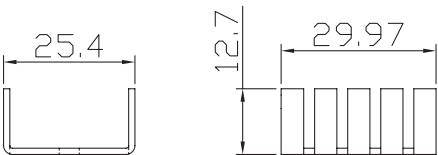
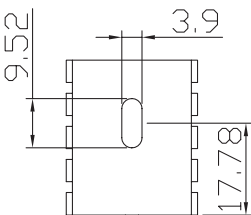
units: mm  
tolerance: ±0.5 mm

|           |                                                |
|-----------|------------------------------------------------|
| 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 |
| 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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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