

date 02/02/2023

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SERIES: HSS-B20-05 | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- available with and without solder pins
- · black anodized finish
- aluminum





| MODEL | solder pin | | thermal resistance ¹ | | | | power dissipation ¹ |
|---------------|-------------|--------|--------------------------------------|--------------------|-------------------|-------------------|-----------------------------------|
| | orientation | length | @ 75°C ∆T, nat conv (°C/W) | @ 1 W, nat conv | @ 1 W, 200 LFM | @ 1 W, 400 LFM | @ 75°C ∆T, nat conv |
| | | (mm) | | (°C/W) | (°C/W) | (°C/W) | (W) |
| HSS-B20-095H | horizontal | 9.5 | 18.34 | 23.32 | 6.50 | 4.48 | 4.09 |
| HSS-B20-NP-15 | no pin | | 18.34 | 23.32 | 6.50 | 4.48 | 4.09 |

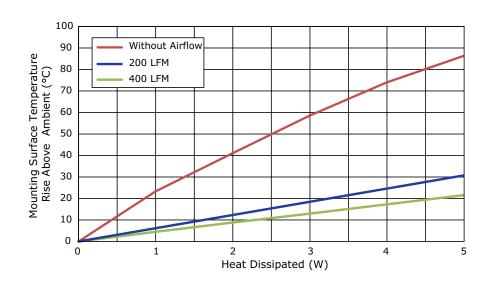
Note: 1. See performance curves for full thermal resistance details.

PERFORMANCE CURVES

| | Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C) | | | | |
|--------------|---|---------|---------|--|--|
| Power (W) | Natural Conv. | 200 LFM | 400 LFM | | |
| 0 | 0 | 0 | 0 | | |
| 1 | 23.32 | 6.50 | 4.48 | | |
| 2 | 41.07 | 12.47 | 8.78 | | |
| 3 | 58.53 | 18.87 | 12.95 | | |
| 4 | 73.99 | 25.00 | 17.27 | | |
| 5 | 86.32 | 30.94 | 21.52 | | |

Ths: "hot spot" temperature measured on the heatsink

Ta: ambient temperature



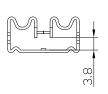
MECHANICAL DRAWING

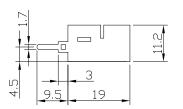
units: mm

tolerance: ±0.5 mm

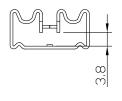
| MATERIAL | AL5052 |
|-----------|---|
| FINISH | black anodized |
| THICKNESS | 0.8 mm |
| WEIGHT | HSS-B20-095H: 2.9 g HSS-B20-NP-15: 2.9 g |

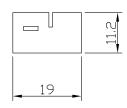
HSS-B20-095H

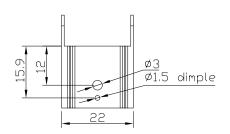


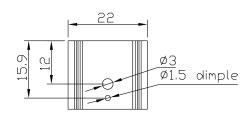


HSS-B20-NP-15









REVISION HISTORY

| rev. | description | date |
|------|------------------------------|------------|
| 1.0 | initial release | 03/29/2017 |
| 1.01 | brand update | 02/12/2020 |
| 1.02 | logo, datasheet style update | 08/05/2022 |
| 1.03 | updated drawings | 02/02/2023 |

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



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