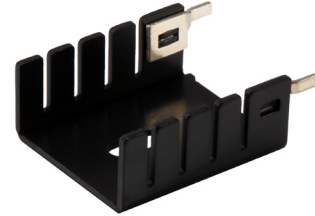




MODEL: HSS09-B20-P431 | **DESCRIPTION:** HEAT SINK

FEATURES

- TO-220 package
- solder pin
- aluminum alloy
- black anodized finish



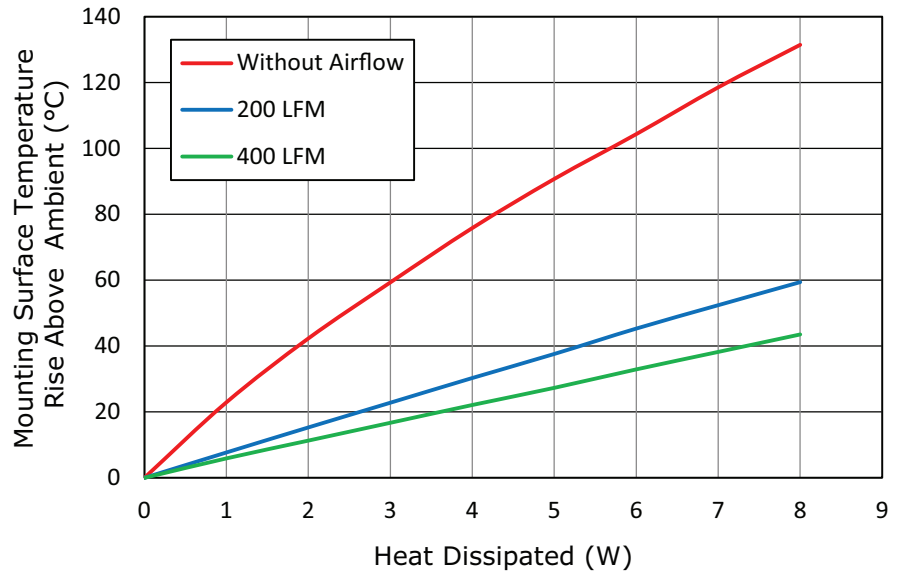
MODEL

| HSS09-B20-P431 | thermal resistance ¹ | | | | power dissipation ¹ |
|----------------|---------------------------------|------------------------|-----------------------|-----------------------|--------------------------------|
| | @ 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] |
| | 18.82 | 22.9 | 7.7 | 5.9 | 3.98 |

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

PERFORMANCE CURVES

| Power (W) | Heatsink Temperature Rise Above Ambient (ΔT = T _{hs} - T _a) [°C] | | |
|-----------|---|---------|---------|
| | Natural Conv. | 200 LFM | 400 LFM |
| 0 | 0 | 0 | 0 |
| 1 | 22.9 | 7.7 | 5.9 |
| 2 | 42.3 | 15.3 | 11.3 |
| 3 | 59.3 | 22.8 | 16.7 |
| 4 | 75.8 | 30.3 | 22.1 |
| 5 | 90.7 | 37.6 | 27.3 |
| 6 | 104.3 | 45.3 | 32.9 |
| 7 | 118.5 | 52.6 | 38.2 |
| 8 | 131.4 | 59.4 | 43.5 |

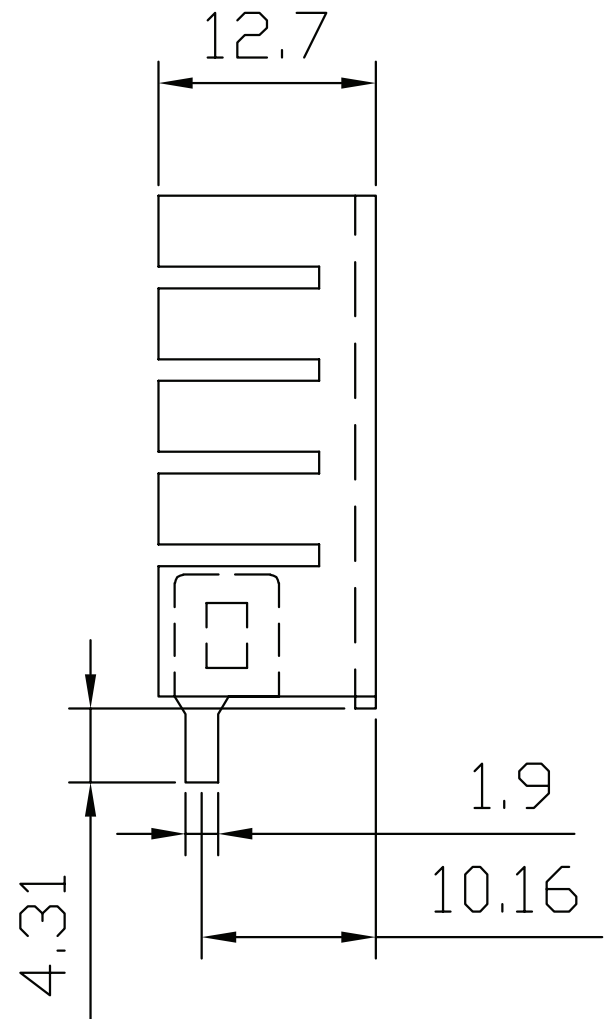
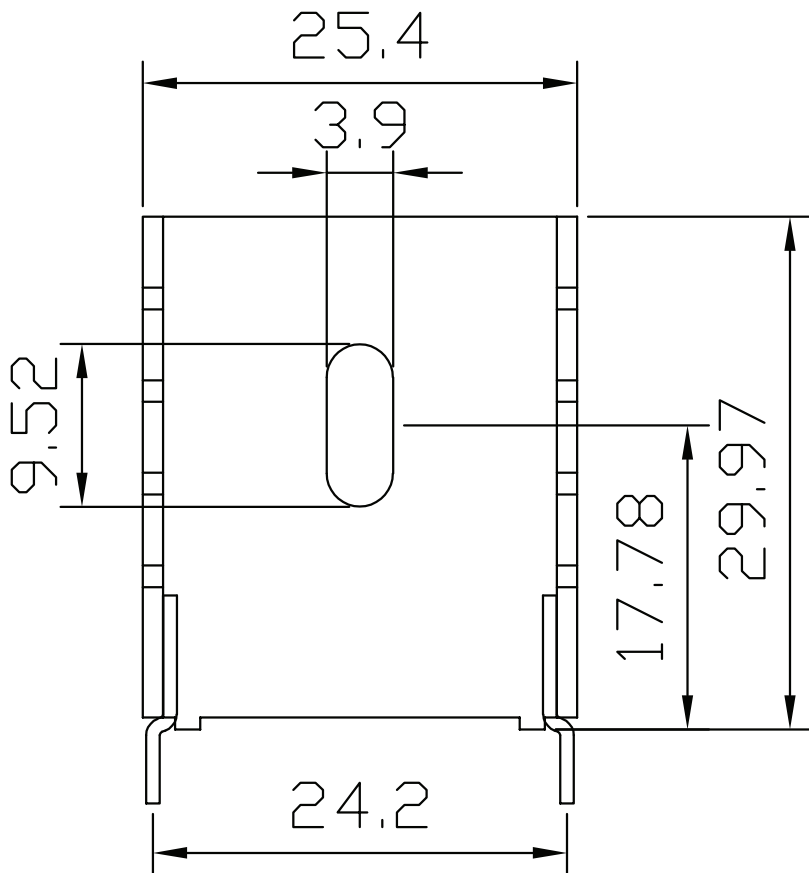


T_{hs}: "hot spot" temperature measured on the heatsink
 T_a: ambient temperature

MECHANICAL DRAWING

units: mm
tolerance: ±0.38 mm

| | |
|--------------|----------------|
| MATERIAL | AL 1050 |
| FINISH | black anodized |
| THICKNESS | 1.2 mm |
| PIN MATERIAL | brass |
| PIN PLATING | 2-3 μm tin |
| WEIGHT | 5.0 g |



REVISION HISTORY

| rev. | description | date |
|------|-----------------------------------|------------|
| 1.0 | initial release | 06/25/2021 |
| 1.01 | logo, datasheet style update | 08/05/2022 |
| 1.02 | 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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