



MODEL: HSS13-B20-NP | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- slide in attachment
- aluminum alloy
- black anodized finish



MODEL

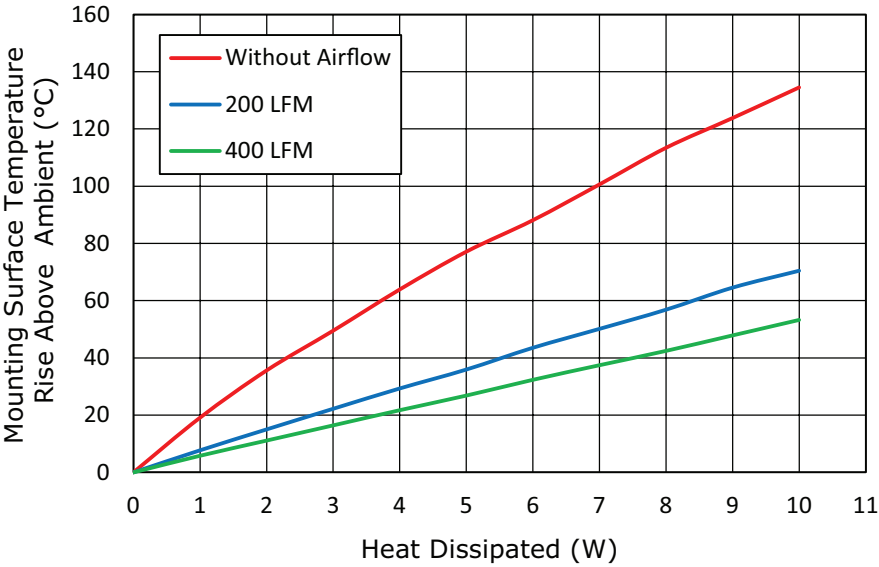
|              | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup> |
|--------------|---------------------------------|------------------------|-----------------------|-----------------------|--------------------------------|
|              | @ 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]        |
| HSS13-B20-NP | 15.50                           | 19.1                   | 7.7                   | 5.8                   | 4.84                           |

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         | 19.1                                                                                  | 7.7     | 5.8     |
| 2         | 35.6                                                                                  | 15.0    | 11.1    |
| 3         | 49.5                                                                                  | 22.2    | 16.4    |
| 4         | 63.9                                                                                  | 29.3    | 21.7    |
| 5         | 77.1                                                                                  | 35.9    | 26.8    |
| 6         | 88.1                                                                                  | 43.5    | 32.3    |
| 7         | 100.6                                                                                 | 50.1    | 37.4    |
| 8         | 113.4                                                                                 | 56.8    | 42.4    |
| 9         | 123.8                                                                                 | 64.5    | 47.8    |
| 10        | 134.5                                                                                 | 70.4    | 53.2    |

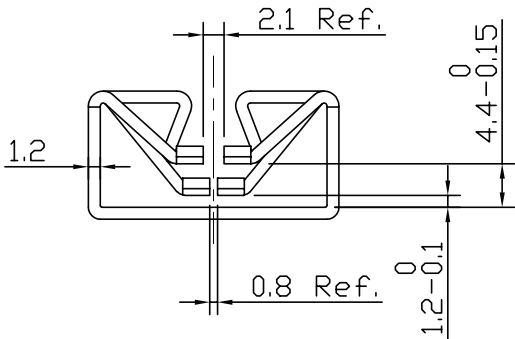
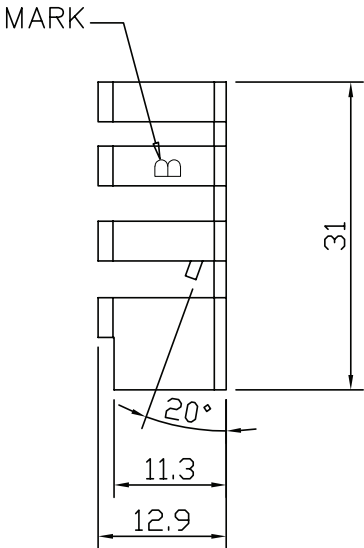
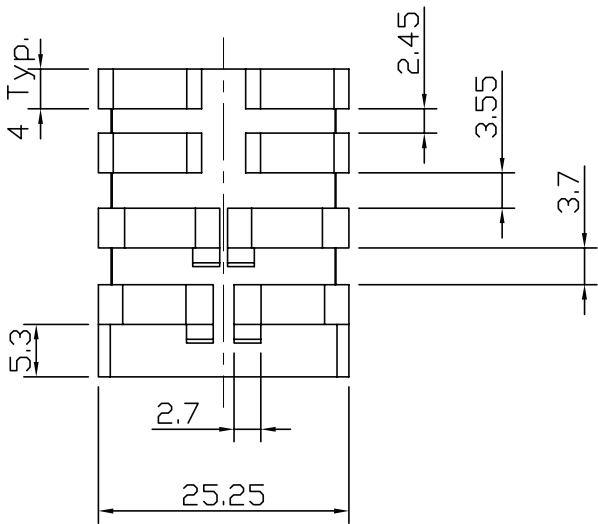
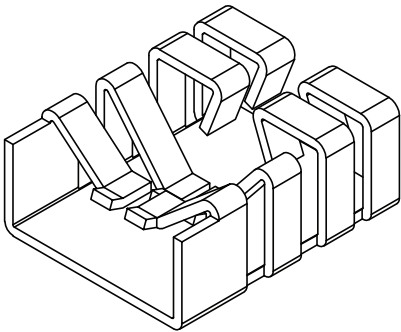
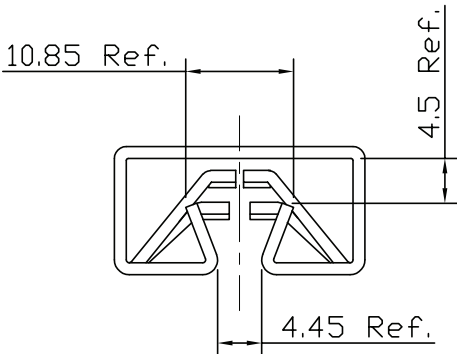
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.38 mm

|           |                |
|-----------|----------------|
| MATERIAL  | AL 5052        |
| FINISH    | black anodized |
| THICKNESS | 1.2 mm         |
| WEIGHT    | 6.0 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.



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