



**SERIES:** HSS-B20-04 | **DESCRIPTION:** HEAT SINK

**FEATURES**

- TO-220 package
- available with and without solder pins
- slide in style for easy component attachment
- black anodized finish



**MODEL**

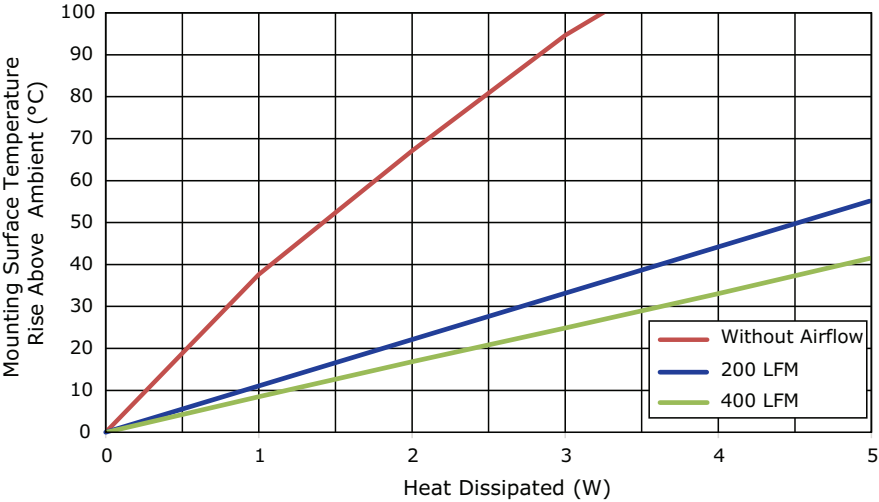
|                  | solder pin  |                | thermal resistance <sup>1</sup> |                              |                             |                             | power dissipation <sup>1</sup> |
|------------------|-------------|----------------|---------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------------|
|                  | orientation | length<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-B20-061H-01  | horizontal  | 6.1            | 33.28                           | 37.62                        | 11.04                       | 8.48                        | 2.25                           |
| HSS-B20-0953H-01 | horizontal  | 9.53           | 33.28                           | 37.62                        | 11.04                       | 8.48                        | 2.25                           |
| HSS-B20-NP-07    | no pin      | --             | 33.28                           | 37.62                        | 11.04                       | 8.48                        | 2.25                           |

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

**PERFORMANCE CURVES**

| Power<br>[W] | Heatsink Temperature Rise Above<br>Ambient (ΔT = T <sub>hs</sub> - T <sub>a</sub> ) [°C] |         |         |
|--------------|------------------------------------------------------------------------------------------|---------|---------|
|              | Natural<br>Conv.                                                                         | 200 LFM | 400 LFM |
| 0            | 0                                                                                        | 0       | 0       |
| 1            | 37.62                                                                                    | 11.04   | 8.48    |
| 2            | 67.10                                                                                    | 22.01   | 16.80   |
| 3            | 94.67                                                                                    | 32.92   | 24.82   |
| 4            | 116.45                                                                                   | 43.78   | 32.98   |
| 5            | 135.00                                                                                   | 55.12   | 41.47   |

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

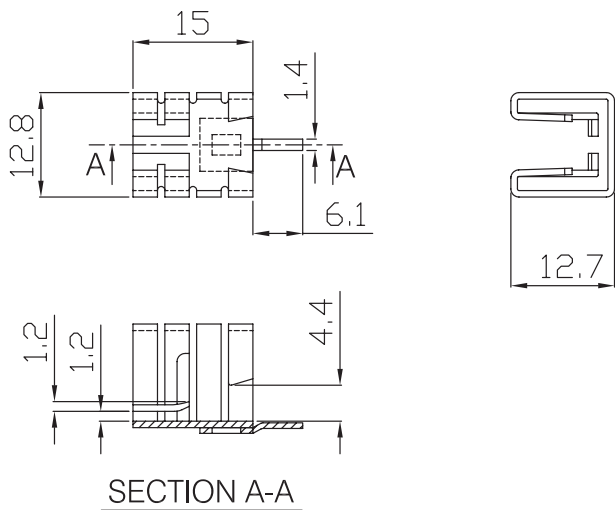


MECHANICAL DRAWING

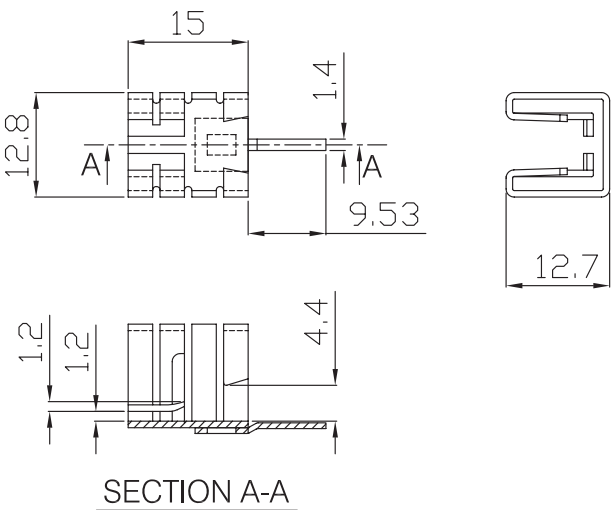
units: mm  
tolerance: ±0.5 mm

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| MATERIAL     | AL5052                                                                    |
| FINISH       | black anodized                                                            |
| THICKNESS    | 0.8 mm                                                                    |
| PIN MATERIAL | brass                                                                     |
| PIN PLATING  | tin                                                                       |
| WEIGHT       | HSS-B20-061H-01: 1.6 g<br>HSS-B20-0953H-01: 1.6 g<br>HSS-B20-NP-07: 1.3 g |

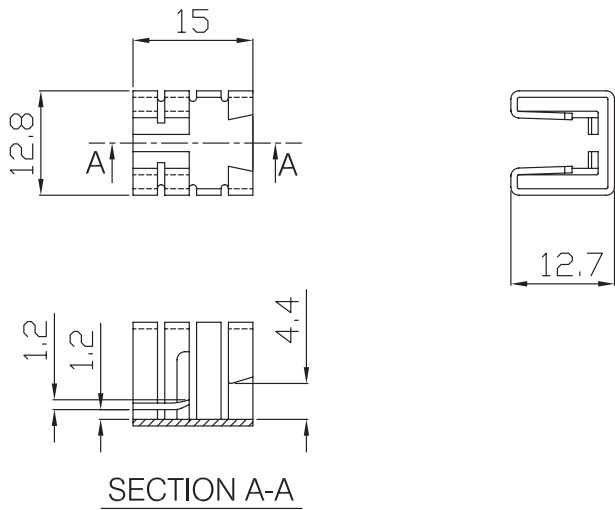
HSS-B20-061H-01



HSS-B20-0953H-01



HSS-B20-NP-07



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 03/29/2017 |
| 1.01 | brand update                      | 02/11/2020 |
| 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.



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