

**SERIES:** HSS-B20-07 | **DESCRIPTION:** HEAT SINK**FEATURES**

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

**MODEL**

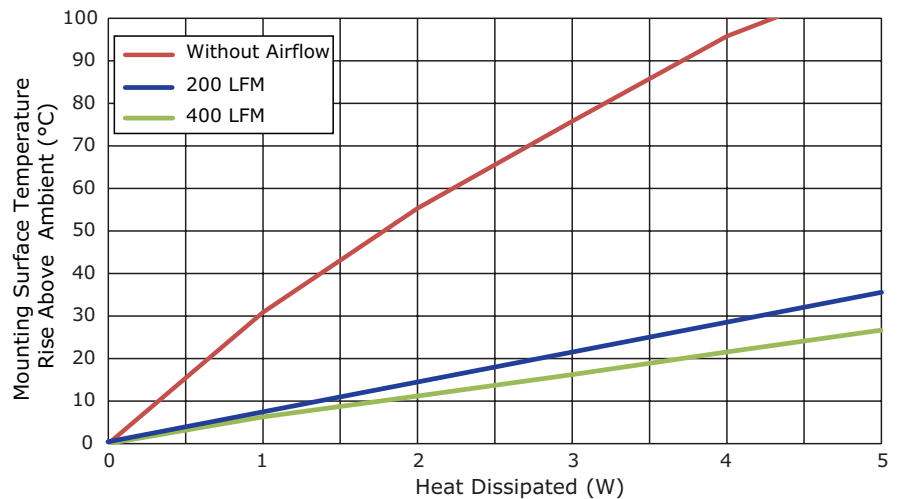
|                  | solder pin  |                | thermal resistance <sup>1</sup>        |                              |                             |                             | power dissipation <sup>1</sup>      |
|------------------|-------------|----------------|----------------------------------------|------------------------------|-----------------------------|-----------------------------|-------------------------------------|
|                  | orientation | length<br>[mm] | @ 75°C $\Delta T$ , 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 $\Delta T$ , nat<br>conv [W] |
| HSS-B20-061H-02  | horizontal  | 6.1            | 25.92                                  | 30.86                        | 7.24                        | 6.25                        | 2.89                                |
| HSS-B20-0953H-02 | horizontal  | 9.53           | 25.92                                  | 30.86                        | 7.24                        | 6.25                        | 2.89                                |
| HSS-B20-065V-02  | vertical    | 6.5            | 25.92                                  | 30.86                        | 7.24                        | 6.25                        | 2.89                                |
| HSS-B20-NP-10    | no pin      | --             | 25.92                                  | 30.86                        | 7.24                        | 6.25                        | 2.89                                |

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

**PERFORMANCE CURVES**

| Power<br>[W] | Heatsink Temperature Rise Above<br>Ambient ( $\Delta T = T_{hs} - T_a$ ) [°C] |         |         |
|--------------|-------------------------------------------------------------------------------|---------|---------|
|              | Natural<br>Conv.                                                              | 200 LFM | 400 LFM |
| 0            | 0                                                                             | 0       | 0       |
| 1            | 30.86                                                                         | 7.24    | 6.25    |
| 2            | 55.34                                                                         | 14.06   | 11.16   |
| 3            | 75.79                                                                         | 21.12   | 16.22   |
| 4            | 95.80                                                                         | 28.34   | 21.52   |
| 5            | 109.77                                                                        | 35.58   | 26.70   |

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

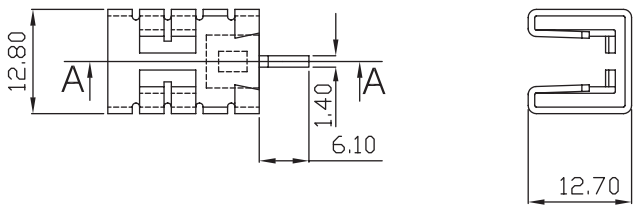


MECHANICAL DRAWING

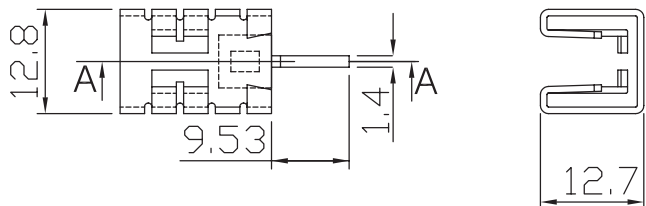
units: mm  
tolerance: ±0.5 mm

|              |                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------|
| MATERIAL     | AL5052                                                                                              |
| FINISH       | black anodized                                                                                      |
| THICKNESS    | 0.8 mm                                                                                              |
| PIN MATERIAL | brass                                                                                               |
| PIN PLATING  | tin                                                                                                 |
| WEIGHT       | HSS-B20-061H-02: 1.8 g<br>HSS-B20-0953H-02: 1.8 g<br>HSS-B20-065V-02: 1.8 g<br>HSS-B20-NP-10: 1.7 g |

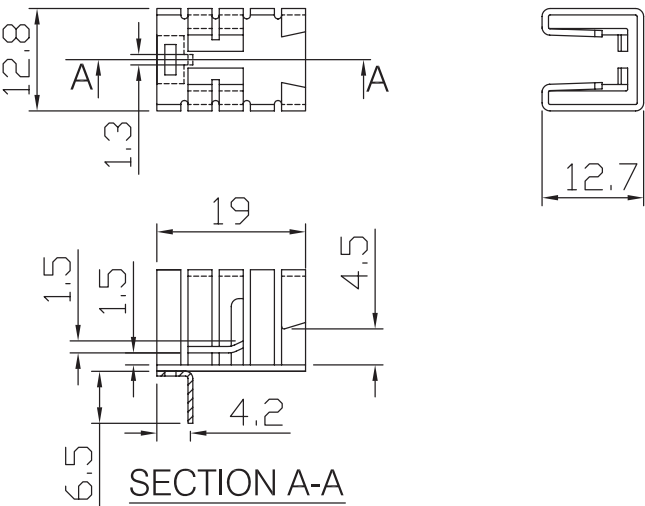
HSS-B20-061H-02



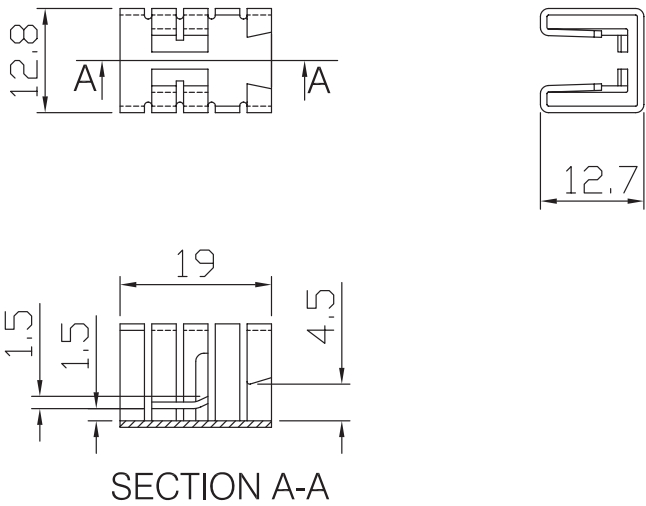
HSS-B20-0953H-02



HSS-B20-065V-02



HSS-B20-NP-10



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 03/29/2017 |
| 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.



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