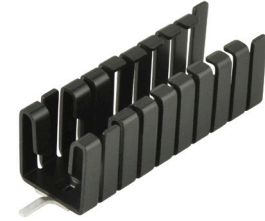




**SERIES:** HSS-B20-01 | **DESCRIPTION:** HEAT SINK

**FEATURES**

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



**MODEL**

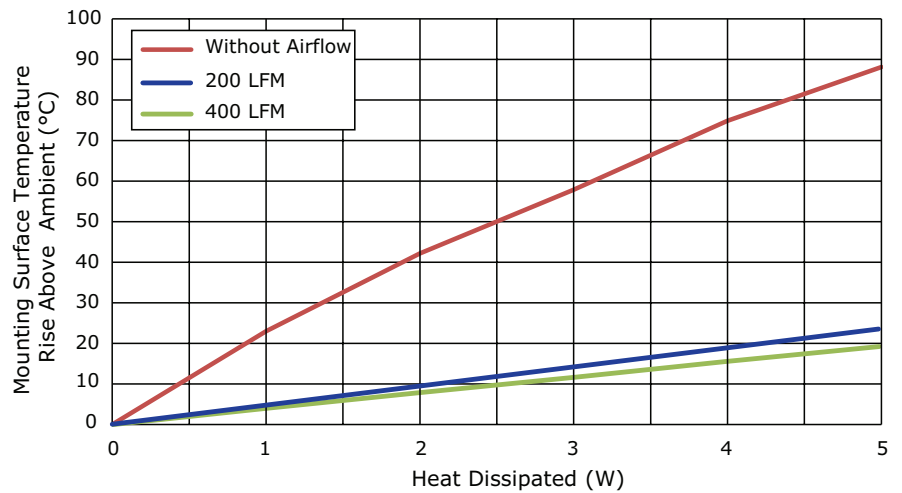
|               | solder pin  |                | thermal resistance <sup>1</sup>  |                              |                             |                             | power dissipation <sup>1</sup><br>@ 75°C ΔT,<br>nat conv<br>(W) |
|---------------|-------------|----------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|---|
|               | orientation | length<br>(mm) | @ 75°C ΔT,<br>nat conv<br>(°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) |   |
| HSS-B20-061H  | horizontal  | 6.1            | 18.63                            | 23.05                        | 5.01                        | 4.01                        | 4.02  |
| HSS-B20-0953H | horizontal  | 9.53           | 18.63                            | 23.05                        | 5.01                        | 4.01                        | 4.02  |
| HSS-B20-065V  | vertical    | 6.5            | 18.63                            | 23.05                        | 5.01                        | 4.01                        | 4.02  |
| HSS-B20-NP    | no pin      | --             | 18.63                            | 23.05                        | 5.01                        | 4.01                        | 4.02  |

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

**PERFORMANCE CURVES**

| Power<br>(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            | 23.05   | 5.01    | 4.01    |
| 2            | 42.19   | 9.68    | 7.89    |
| 3            | 57.90   | 14.39   | 11.64   |
| 4            | 74.85   | 18.96   | 15.57   |
| 5            | 88.08   | 23.63   | 19.26   |

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

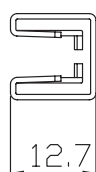
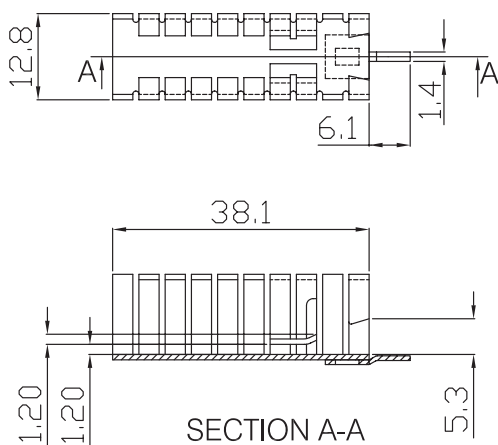


## MECHANICAL DRAWING

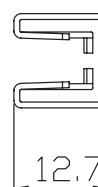
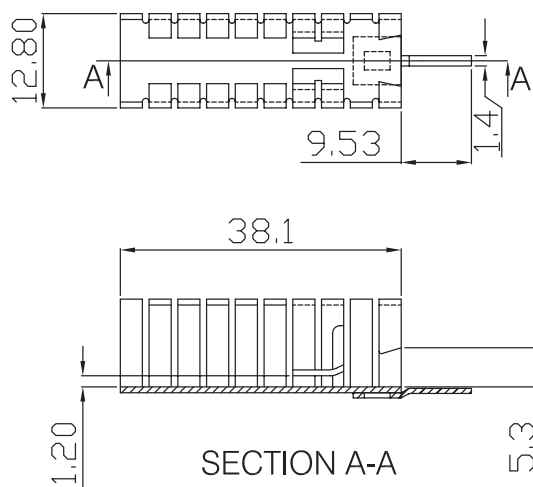
units: mm  
tolerance: ±0.5 mm

|              |   |
|--------------|---|
| MATERIAL     | AL5052  |
| FINISH       | black anodized  |
| THICKNESS    | 0.8 mm  |
| PIN MATERIAL | brass   |
| PIN PLATING  | tin   |
| WEIGHT       | HSS-B20-061H: 3.1 g<br>HSS-B20-0953H: 3.1 g<br>HSS-B20-065V: 3.1 g<br>HSS-B20-NP: 3.0 g |

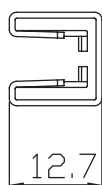
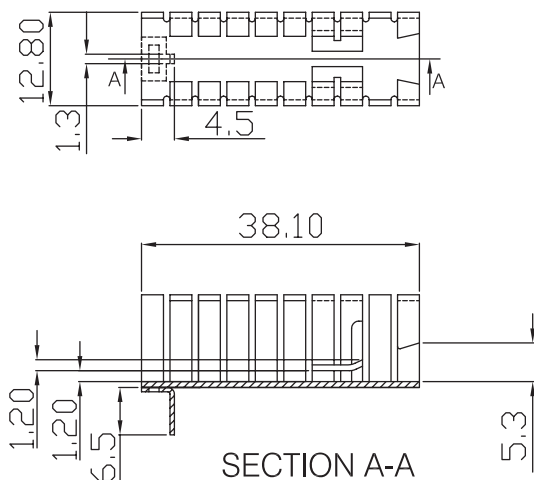
**HSS-B20-061H**



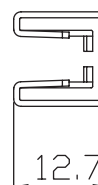
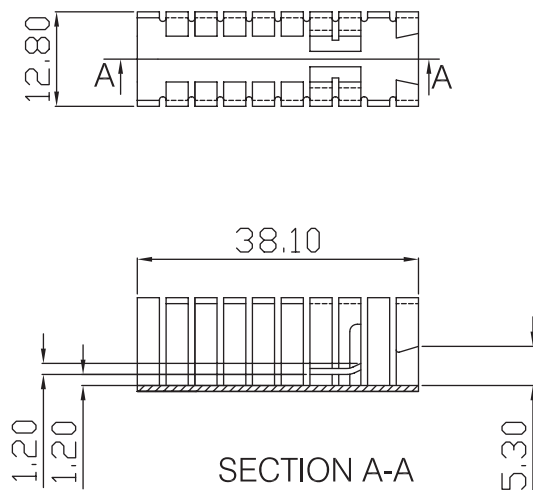
**HSS-B20-0953H**



**HSS-B20-065V**



**HSS-B20-NP**



## REVISION HISTORY

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

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



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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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