



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**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**

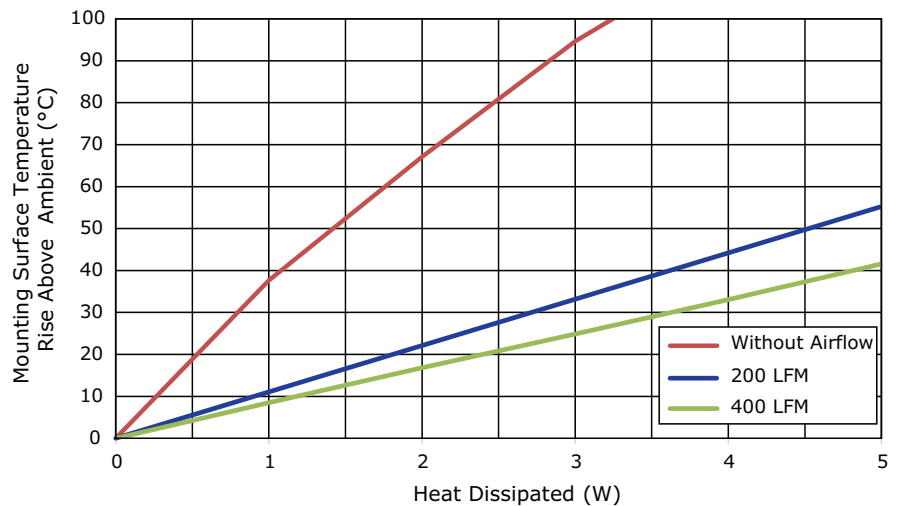
|                  | solder pin  |                | thermal resistance <sup>1</sup>  |                              |                             |                             | power dissipation <sup>1</sup><br>@ 75°C ΔT,<br>nat conv<br>(W) |
|------------------|-------------|----------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|---|
|                  | 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-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 (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         | 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

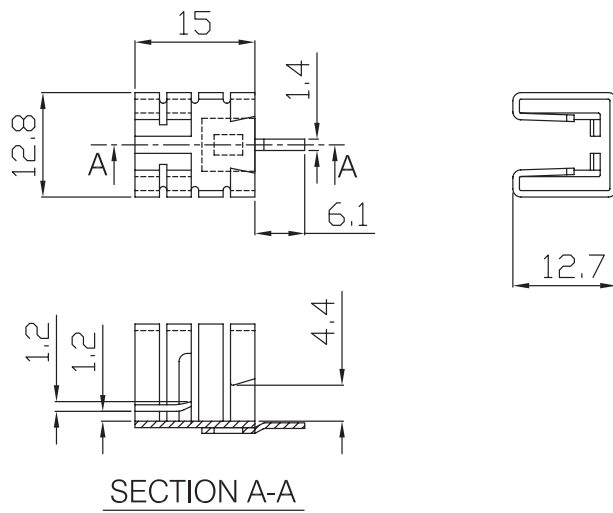


## MECHANICAL DRAWING

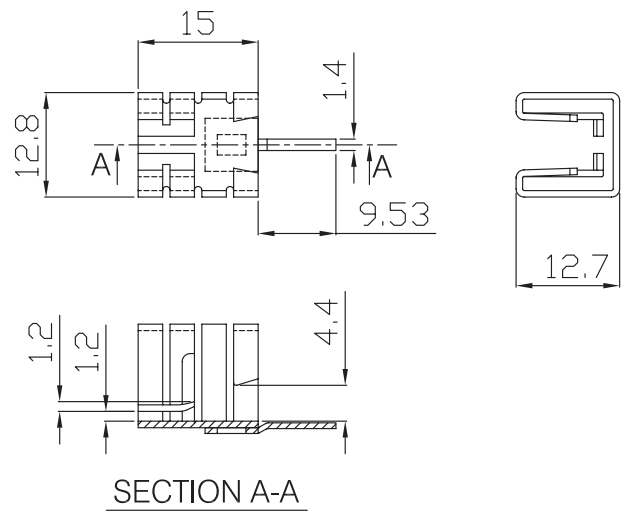
units: mm  
tolerance:  $\pm 0.5$  mm

|              |   |
|--------------|---|
| 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 |

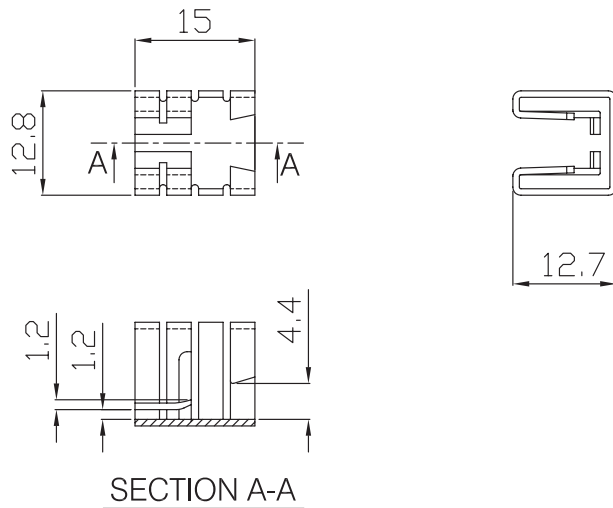
**HSS-B20-061H-01**



**HSS-B20-0953H-01**



**HSS-B20-NP-07**



## REVISION HISTORY

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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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