

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

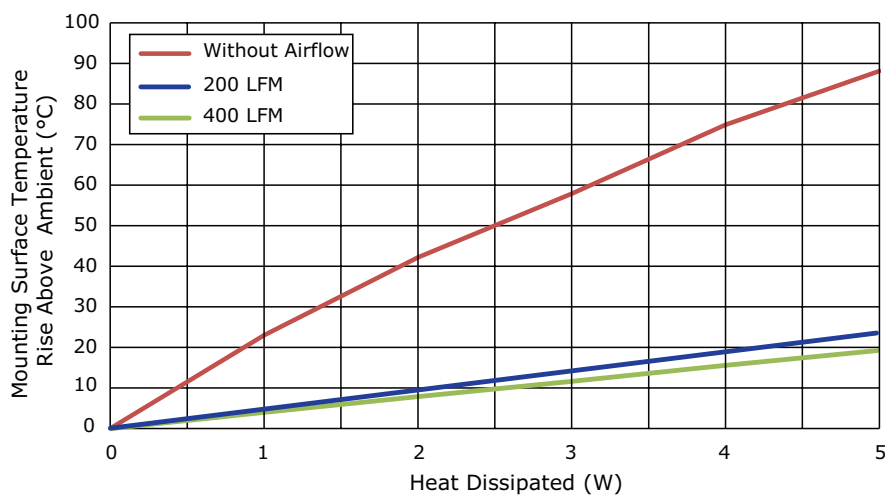
| MODEL | solder pin | | thermal resistance ¹ | | | | power dissipation ¹ |
|---------------|-------------|----------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------------|
| | orientation | length (mm) | @ 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) |
| 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 (W) | Heatsink Temperature Rise Above Ambient (ΔT = T _{hs} - T _a) (°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_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature

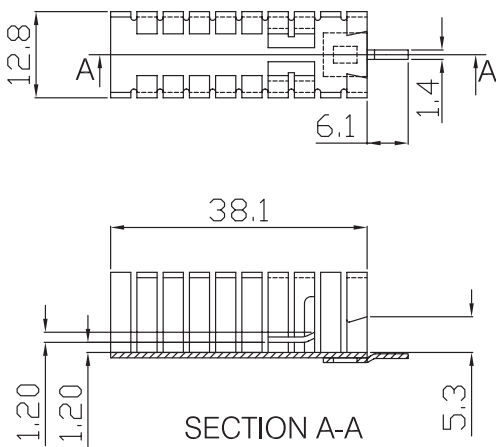


MECHANICAL DRAWING

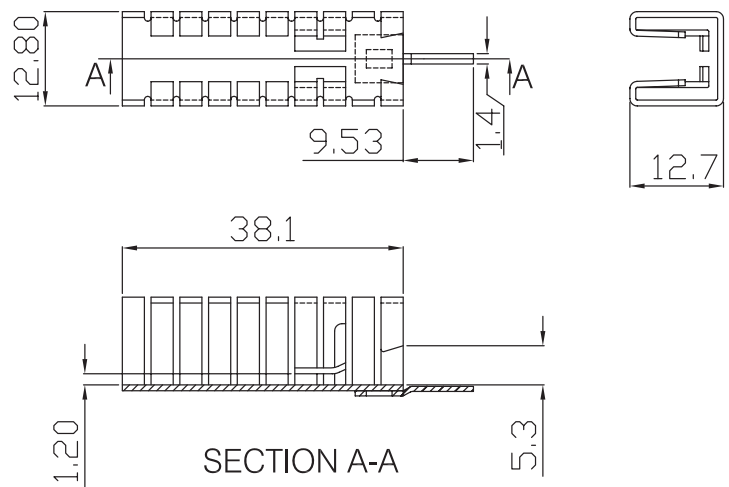
units: mm
tolerance: ± 0.5 mm

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

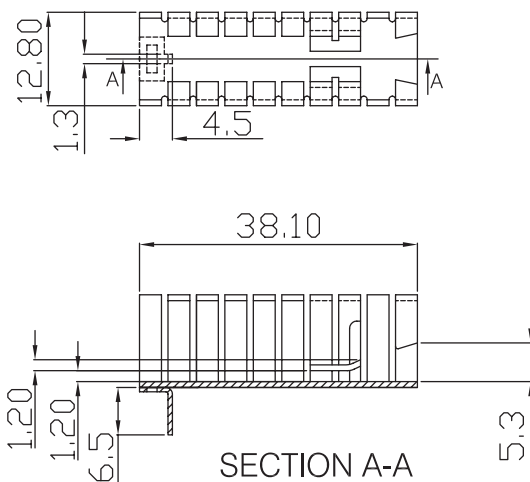
HSS-B20-061H



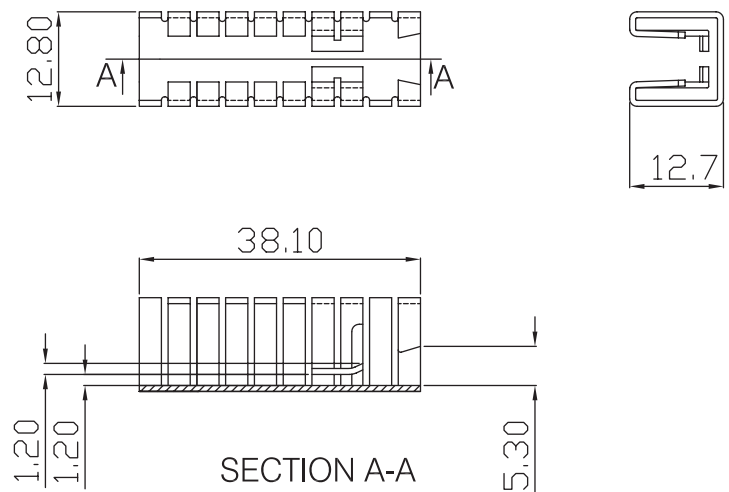
HSS-B20-0953H



HSS-B20-065V



HSS-B20-NP



REVISION HISTORY

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

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

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