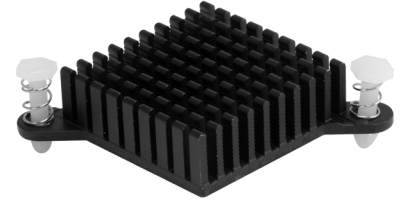


**MODEL:** HSB25-282810 | **DESCRIPTION:** HEAT SINK**FEATURES**

- BGA design
- small footprint
- top mount
- aluminum alloy

**MODEL**

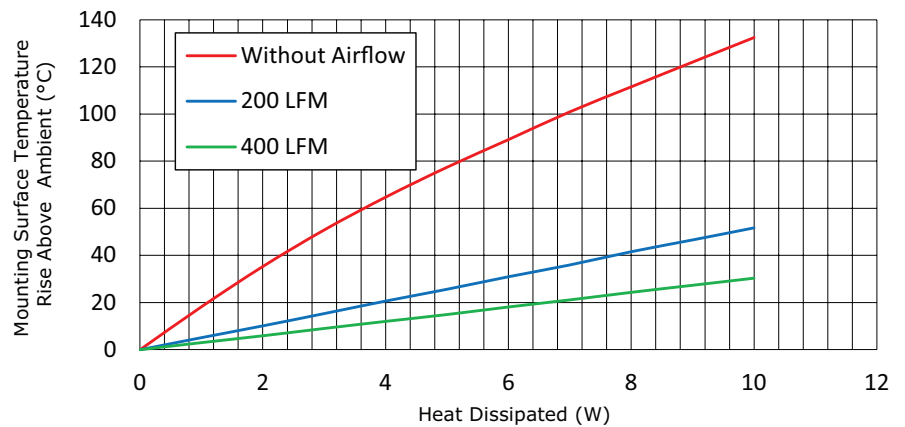
|              | thermal resistance <sup>1</sup>     |                        |                       |                       | power dissipation <sup>1</sup>   |
|--------------|-------------------------------------|------------------------|-----------------------|-----------------------|----------------------------------|
|              | @ 75°C $\Delta T$ , nat conv [°C/W] | @ 1 W, nat conv [°C/W] | @ 1 W, 200 LFM [°C/W] | @ 1 W, 400 LFM [°C/W] | @ 75°C $\Delta T$ , nat conv [W] |
| HSB25-282810 | 15.41                               | 18.2                   | 5.1                   | 3.0                   | 4.87                             |

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

**PERFORMANCE CURVES**

| Power [W] | Heatsink Temperature Rise Above Ambient ( $\Delta T = T_{hs} - T_a$ ) [°C] |         |         |
|-----------|----------------------------------------------------------------------------|---------|---------|
|           | Natural Conv.                                                              | 200 LFM | 400 LFM |
| 0         | 0                                                                          | 0       | 0       |
| 1         | 18.2                                                                       | 5.1     | 3.0     |
| 2         | 35.3                                                                       | 10.1    | 5.9     |
| 3         | 50.8                                                                       | 15.3    | 9.0     |
| 4         | 64.7                                                                       | 20.6    | 12.0    |
| 5         | 77.4                                                                       | 25.6    | 14.9    |
| 6         | 89.1                                                                       | 30.9    | 18.1    |
| 7         | 100.9                                                                      | 35.9    | 21.1    |
| 8         | 111.5                                                                      | 41.5    | 24.3    |
| 9         | 122.0                                                                      | 46.5    | 27.3    |
| 10        | 132.4                                                                      | 51.6    | 30.3    |

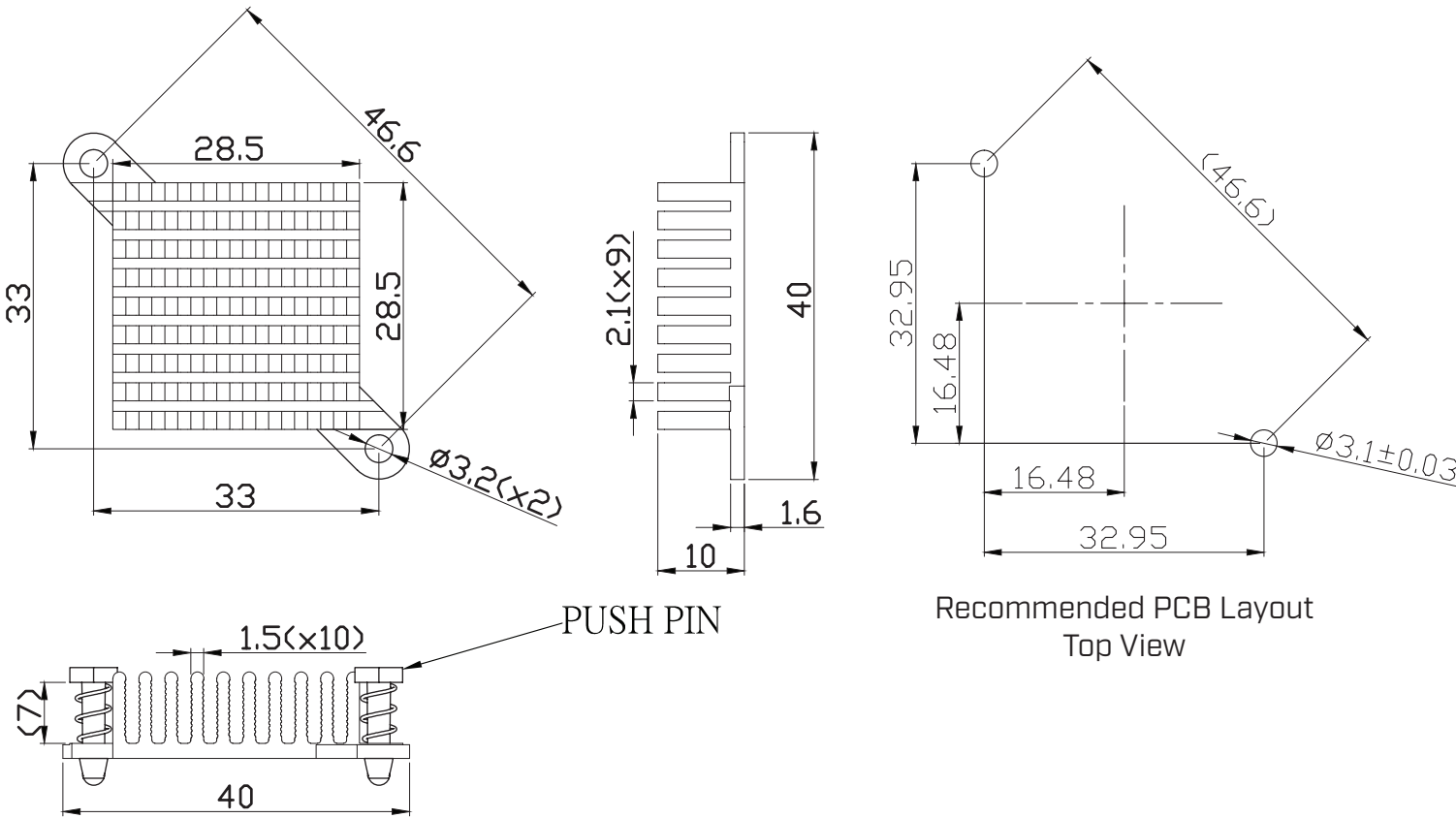
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|          |                             |
|----------|-----------------------------|
| MATERIAL | AL 6063-T5                  |
| FINISH   | black anodized              |
| PUSH PIN | PA66                        |
| SPRING   | spring steel, nickel plated |
| WEIGHT   | 13.9 g                      |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 04/15/2022 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |
| 1.03 | added recommended PCB layout      | 03/18/2025 |

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



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

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