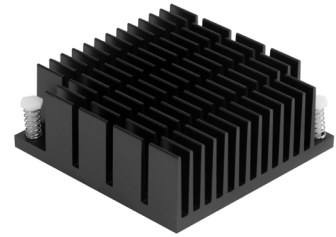


**MODEL:** HSB28-606022 | **DESCRIPTION:** HEAT SINK**FEATURES**

- BGA design
- top mount
- aluminum alloy

**MODEL**

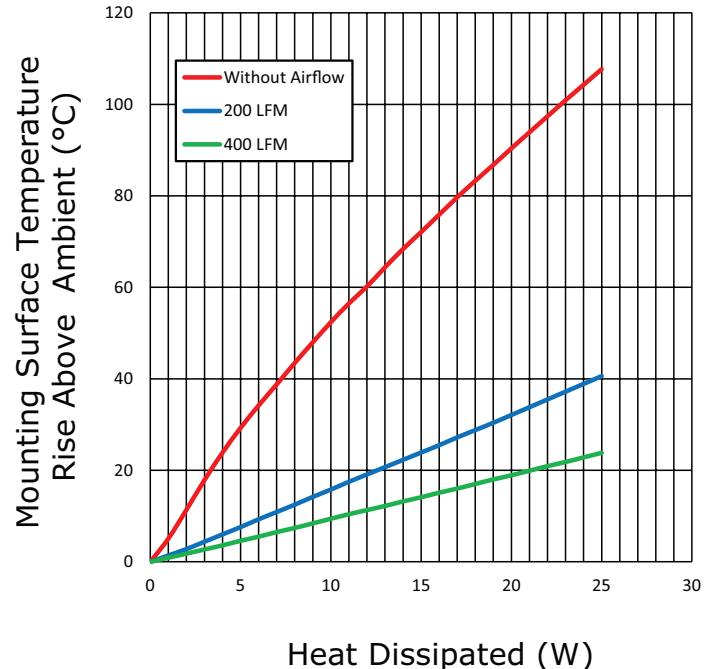
|              | thermal resistance <sup>1</sup>     |                        |                       |                       | power dissipation <sup>1</sup>   |
|--------------|-------------------------------------|------------------------|-----------------------|-----------------------|----------------------------------|
|              | @ 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] |
| HSB28-606022 | 4.74                                | 5.1                    | 1.4                   | 0.9                   | 15.83                            |

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         | 5.1                                                                        | 1.4     | 0.9     |
| 3         | 17.9                                                                       | 4.4     | 2.7     |
| 5         | 29.3                                                                       | 7.6     | 4.6     |
| 7         | 38.8                                                                       | 10.9    | 6.5     |
| 9         | 48.0                                                                       | 14.2    | 8.4     |
| 11        | 56.5                                                                       | 17.5    | 10.4    |
| 13        | 64.4                                                                       | 20.7    | 12.2    |
| 15        | 72.1                                                                       | 23.9    | 14.1    |
| 17        | 79.7                                                                       | 27.2    | 16.0    |
| 19        | 86.8                                                                       | 30.4    | 18.0    |
| 21        | 93.9                                                                       | 33.8    | 19.9    |
| 23        | 100.9                                                                      | 37.2    | 21.8    |
| 25        | 107.7                                                                      | 40.6    | 23.8    |

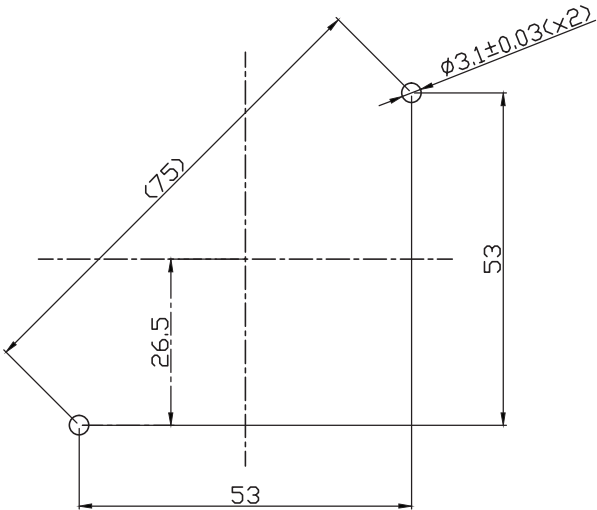
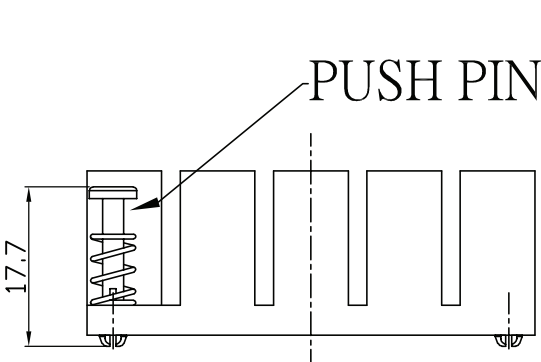
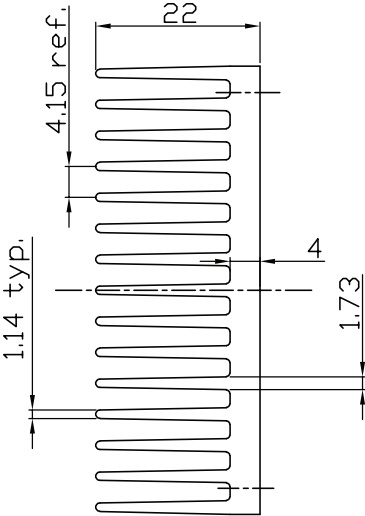
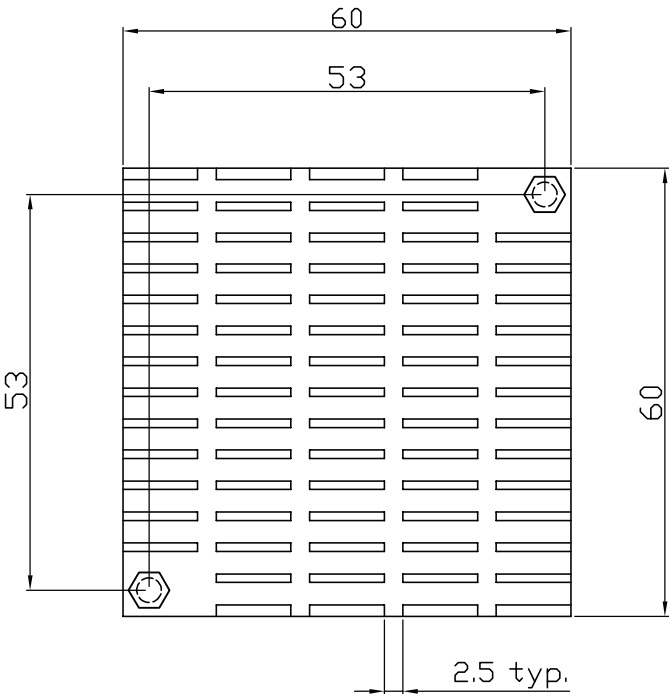
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|          |                             |
|----------|-----------------------------|
| MATERIAL | AL 6063-T5                  |
| FINISH   | black anodized              |
| PUSH PIN | PA66                        |
| SPRING   | spring steel, nickel plated |
| WEIGHT   | 106.5 g                     |



Recommended PCB Layout  
Top View

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 |

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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