



**MODEL:** HSB43-454515P | **DESCRIPTION:** HEAT SINK

**FEATURES**

- BGA design
- push pins
- aluminum alloy
- black anodized finish



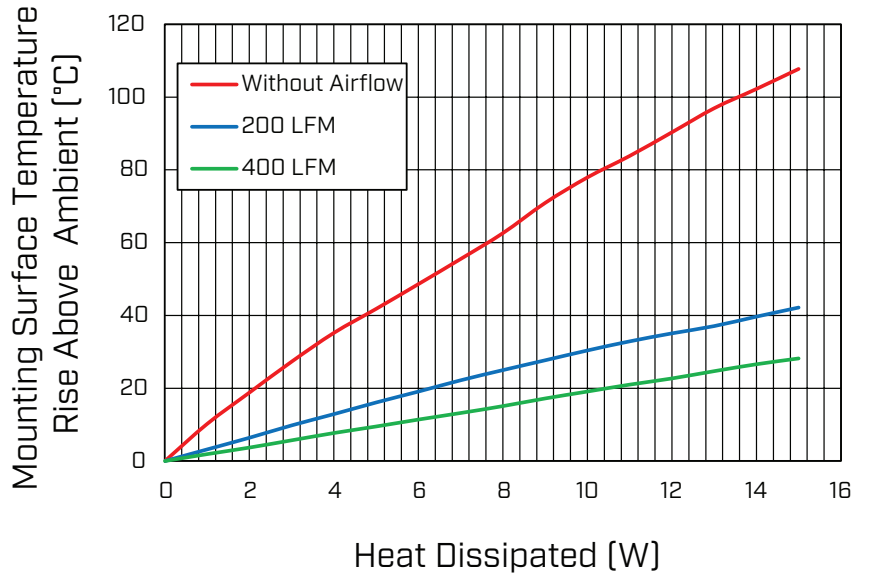
**MODEL**

|               | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup><br>@ 75°C ΔT, nat conv [W] |
|---------------|---------------------------------|------------------------|-----------------------|-----------------------|-----------------------------------------------------------|
|               | @ 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] |                                                           |
| HSB43-454515P | 7.77                            | 10.2                   | 3.2                   | 1.9                   | 9.65                                                      |

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         | 10.2                                                                                  | 3.2     | 1.9     |
| 2         | 18.8                                                                                  | 6.4     | 3.7     |
| 3         | 27.3                                                                                  | 9.8     | 5.7     |
| 4         | 35.2                                                                                  | 12.9    | 7.7     |
| 5         | 41.8                                                                                  | 16.1    | 9.5     |
| 6         | 48.6                                                                                  | 19.1    | 11.4    |
| 7         | 55.5                                                                                  | 22.2    | 13.2    |
| 8         | 62.6                                                                                  | 25.0    | 15.1    |
| 9         | 70.9                                                                                  | 27.7    | 17.2    |
| 10        | 77.9                                                                                  | 30.4    | 19.1    |
| 11        | 83.8                                                                                  | 32.9    | 21.0    |
| 12        | 90.3                                                                                  | 35.1    | 22.7    |
| 13        | 96.9                                                                                  | 37.1    | 24.7    |
| 14        | 102.2                                                                                 | 39.7    | 26.6    |
| 15        | 107.7                                                                                 | 42.2    | 28.2    |

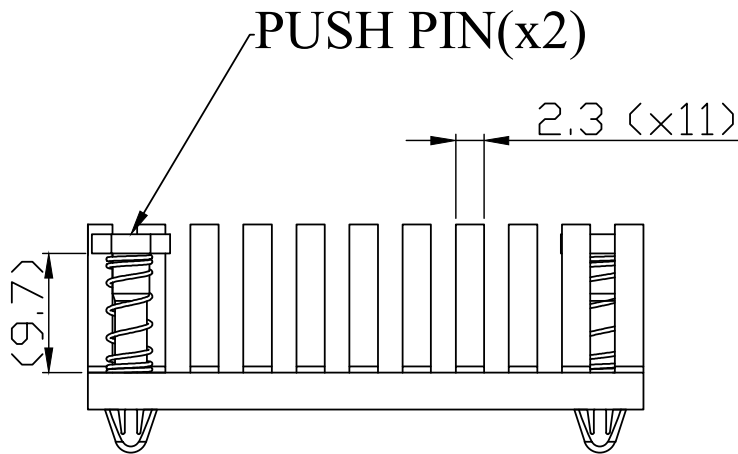
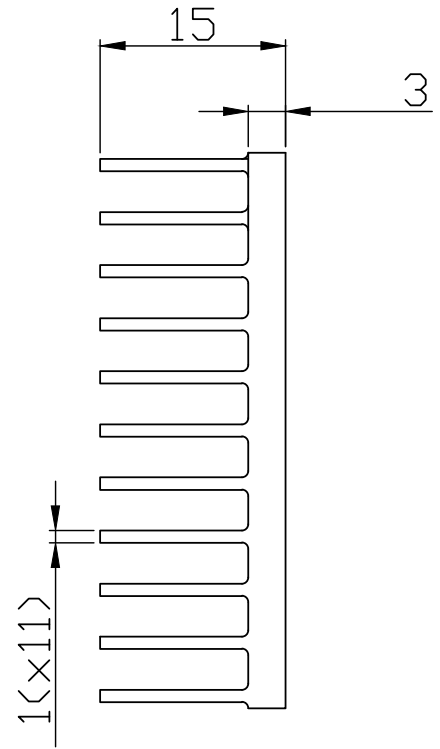
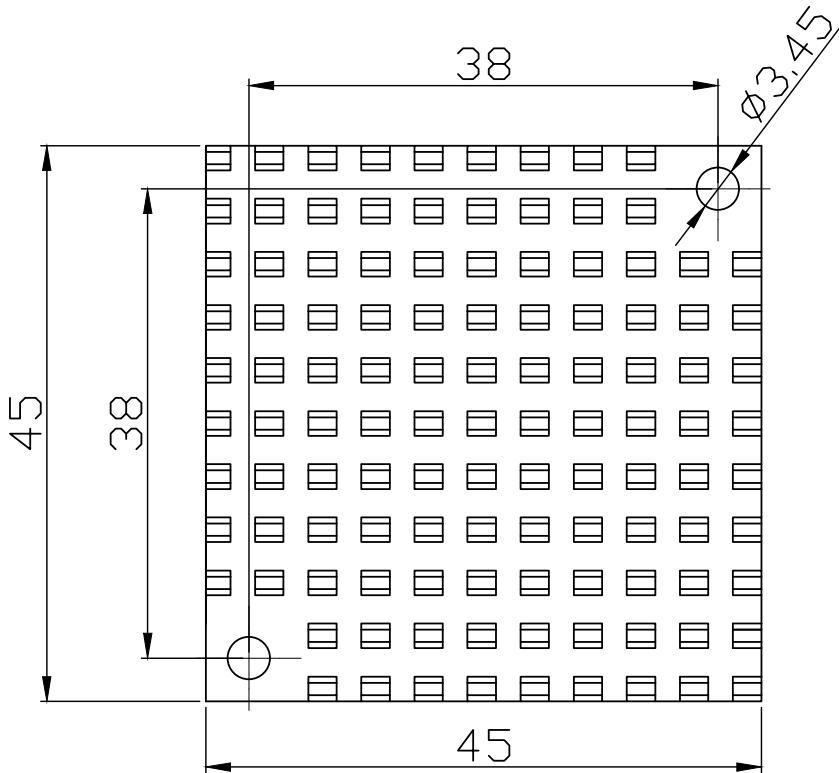


T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature

## MECHANICAL DRAWING

units: mm  
tolerance: ±0.50 mm

|          |                           |
|----------|---------------------------|
| MATERIAL | AL 6063-T5                |
| FINISH   | black anodized            |
| PUSH PIN | nylon 66                  |
| SPRING   | spring steel, zinc plated |
| WEIGHT   | 25 g                      |



## REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 03/01/2024 |
| 1.01 | 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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