

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

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

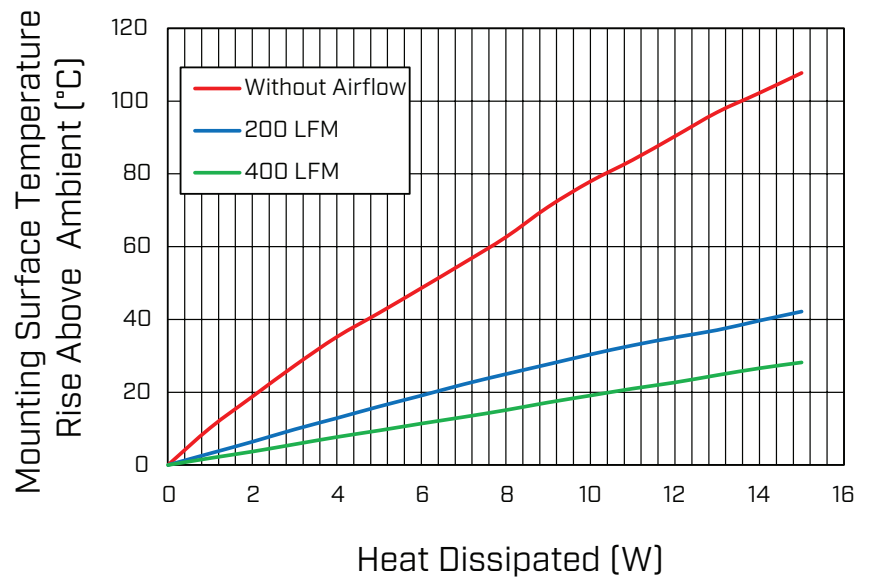
**MODEL**

|               | 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    |

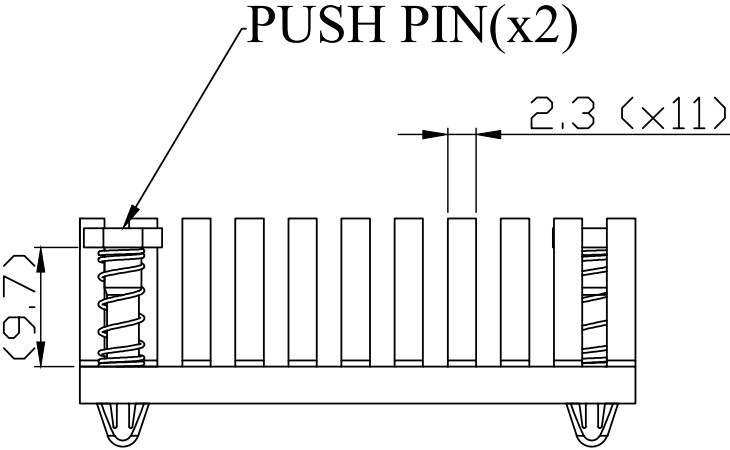
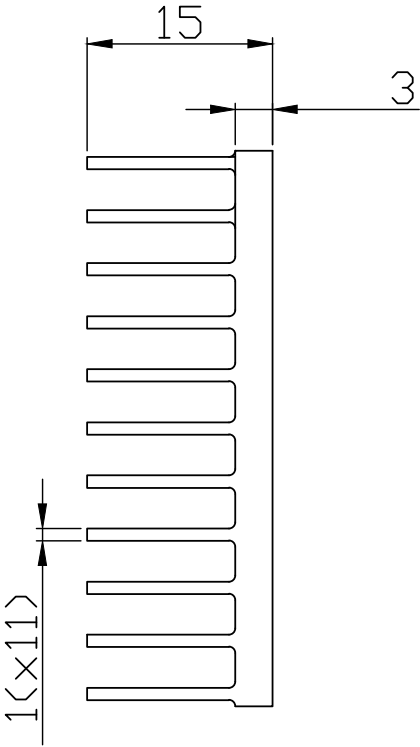
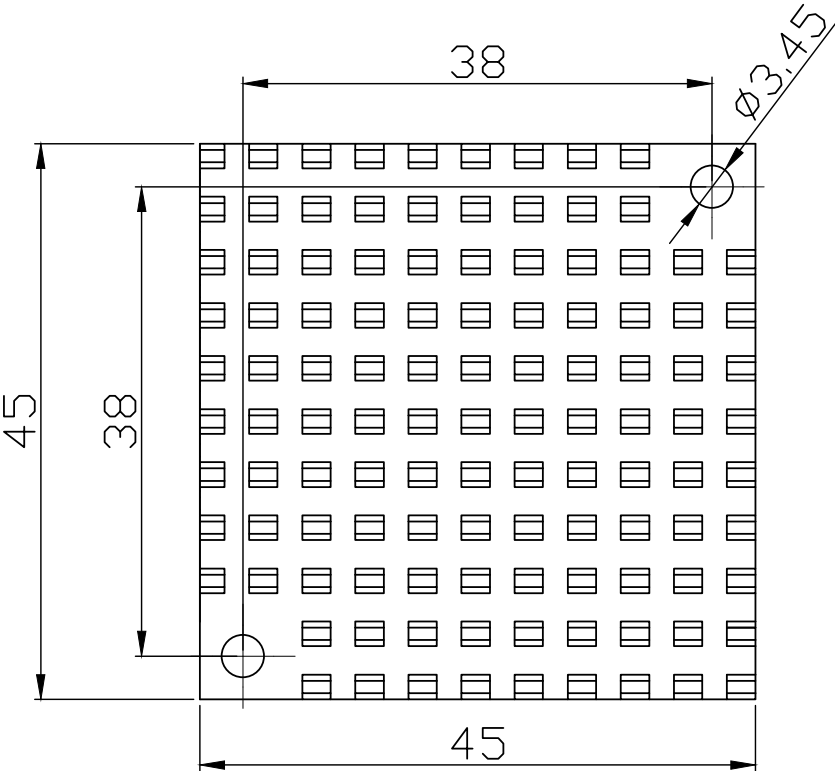


T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature

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 |

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



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