

date 03/01/2024

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MODEL: HSB45-383818 | DESCRIPTION: HEAT SINK

FEATURES

- BGA design
- · pin fins
- copper
- · clean finish





thermal resistance1 power **MODEL** dissipation¹ @ 75°C ∆T, nat @ 1 W, @ 1 W, @ 1 W, @ 75°C ∆T, nat 400 LFM conv (°C/W) nat conv 200 LFM conv (°C/W) $(^{\circ}C/W)$ (°C/W) (W) 10.05 13.5 2.9 1.7 7.46 HSB45-383818

Note:

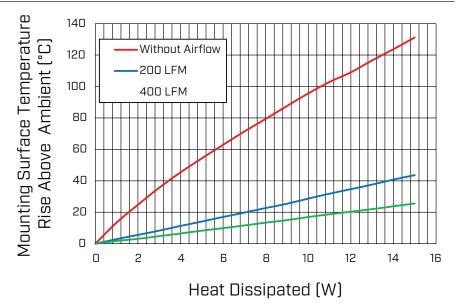
1. See performance curves for full thermal resistance details.

PERFORMANCE CURVES

| Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C) | | |
|---|---|---|
| Natural Conv. | 200 LFM | 400 LFM |
| 0 | 0 | 0 |
| 13.5 | 2.9 | 1.7 |
| 24.8 | 5.6 | 3.1 |
| 35.6 | 8.3 | 4.8 |
| 45.4 | 11.3 | 6.5 |
| 54.3 | 14.1 | 8.3 |
| 62.9 | 17.0 | 9.9 |
| 71.4 | 19.8 | 11.6 |
| 79.4 | 22.7 | 13.4 |
| 87.6 | 25.4 | 15.0 |
| 95.6 | 28.7 | 17.0 |
| 102.9 | 31.8 | 18.7 |
| 109.0 | 34.7 | 20.4 |
| 116.6 | 37.6 | 22.0 |
| 123.7 | 40.8 | 23.8 |
| 131.2 | 43.6 | 25.6 |
| | Ambiel Natural Conv. 0 13.5 24.8 35.6 45.4 54.3 62.9 71.4 79.4 87.6 95.6 102.9 109.0 116.6 123.7 131.2 | Ambient (ΔT = Ths - Natural Conv. 200 LFM 0 0 0 13.5 2.9 24.8 5.6 35.6 8.3 45.4 11.3 54.3 14.1 62.9 17.0 71.4 19.8 79.4 22.7 87.6 25.4 95.6 28.7 102.9 31.8 109.0 34.7 116.6 37.6 123.7 40.8 |



Ta: ambient temperature

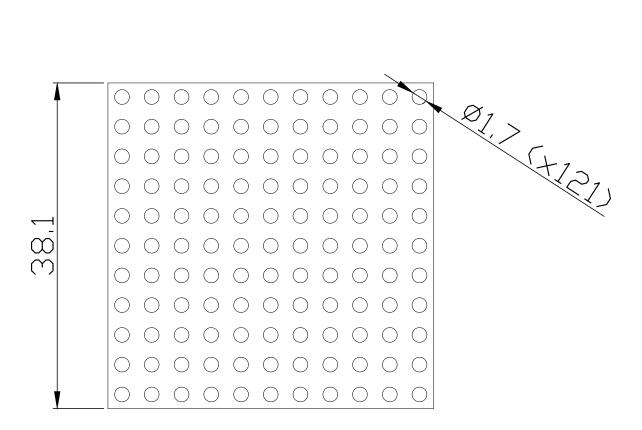


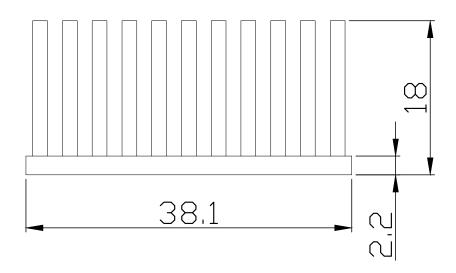
MECHANICAL DRAWING

units: mm

tolerance: ±0.50 mm

| MATERIAL | copper |
|----------|--------|
| FINISH | clean |
| WEIGHT | 72 g |





Additional Resources: Product Page

CUI DEVICES | MODEL: HSB45-383818 | DESCRIPTION: HEAT SINK

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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.



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

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