

**SERIES:** HSE04 | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 or TO-218 package
- low profile
- aluminum alloy

**MODEL**

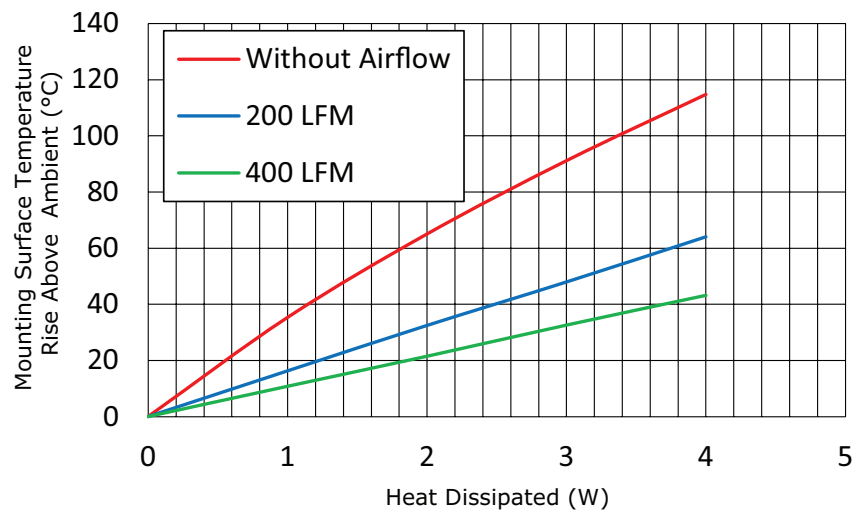
|                | threaded hole | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup><br>@ 75°C ΔT, nat conv [W] |
|----------------|---------------|---------------------------------|------------------------|-----------------------|-----------------------|-----------------------------------------------------------|
|                |               | @ 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] |                                                           |
| HSE04-251265-1 | M2.5x0.45     | 31.22                           | 35.3                   | 16.3                  | 10.8                  | 2.40                                                      |
| HSE04-251265-2 | M3x0.5        | 30.38                           | 34.4                   | 16.6                  | 10.9                  | 2.47                                                      |

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

**PERFORMANCE CURVES****HSE04-251265-1**

| 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         | 35.3                                                                                  | 16.3    | 10.8    |
| 2         | 65.0                                                                                  | 32.5    | 21.5    |
| 3         | 91.1                                                                                  | 48.0    | 32.6    |
| 4         | 114.7                                                                                 | 64.1    | 43.2    |

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

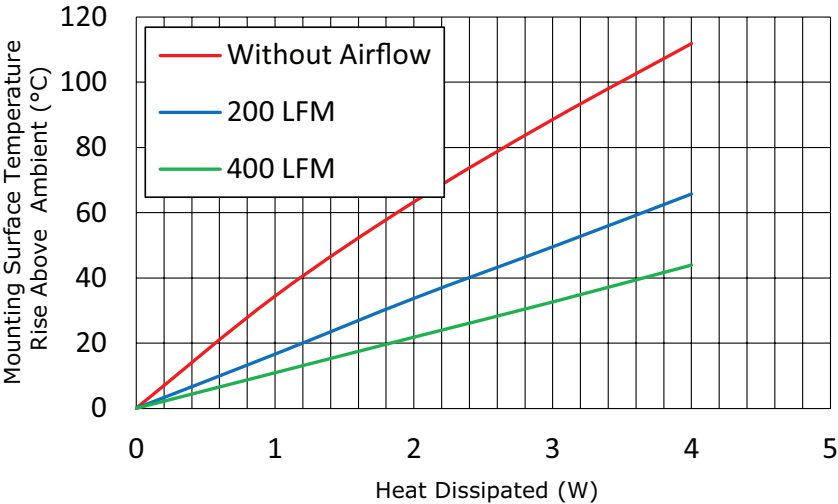


PERFORMANCE CURVES (CONTINUED)

HSE04-251265-2

| Power<br>[W] | Heatsink Temperature Rise Above<br>Ambient [ $\Delta T = T_{hs} - T_a$ ] [°C] |         |         |
|--------------|-------------------------------------------------------------------------------|---------|---------|
|              | Natural<br>Conv.                                                              | 200 LFM | 400 LFM |
| 0            | 0                                                                             | 0       | 0       |
| 1            | 34.4                                                                          | 16.6    | 10.9    |
| 2            | 63.3                                                                          | 33.7    | 21.8    |
| 3            | 88.6                                                                          | 49.5    | 32.6    |
| 4            | 111.9                                                                         | 65.7    | 43.9    |

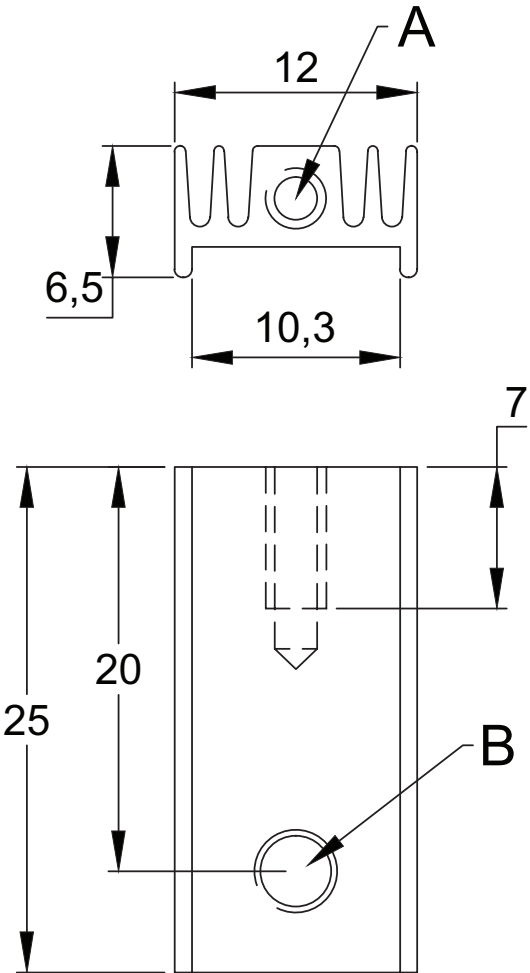
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|          |                |
|----------|----------------|
| MATERIAL | AL 6063-T5     |
| FINISH   | black anodized |
| WEIGHT   | 3.0 g          |



| Model          | Dimensions (mm) |        |
|----------------|-----------------|--------|
|                | A               | B      |
| HSE04-251265-1 | M2.5x0.45       | M3x0.5 |
| HSE04-251265-2 | M3x0.5          | M3x0.5 |

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 04/22/2022 |
| 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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