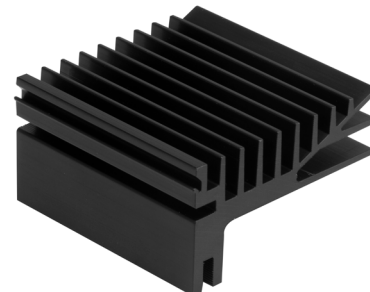


**MODEL:** HSE08-505028 | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 or TO-218 package
- use clip HSC-07 for TO-218
- use clip HSC-08 for TO-220
- aluminum alloy

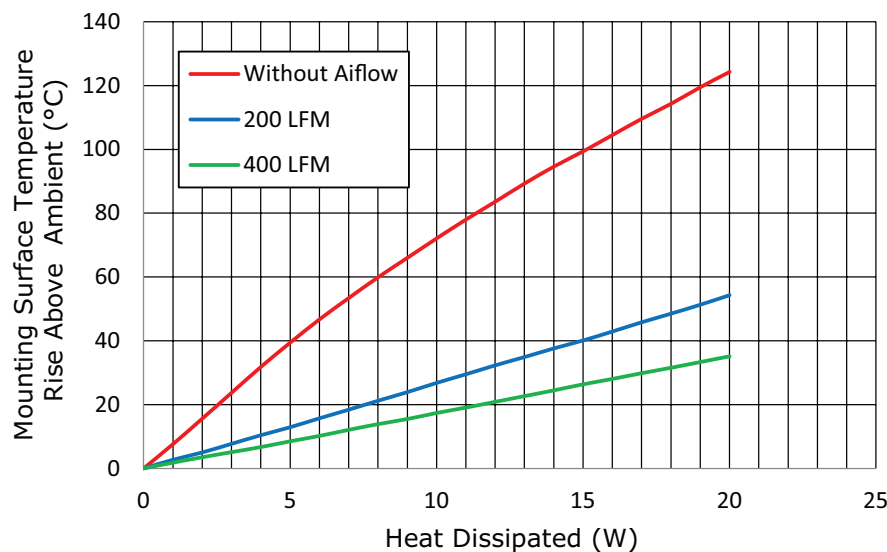
**MODEL**

| MODEL        | thermal resistance <sup>1</sup>  |                              |                             |                             | power dissipation <sup>1</sup> |
|--------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------------|
|              | @ 75°C ΔT,<br>nat conv<br>(°C/W) | @ 1 W,<br>nat conv<br>(°C/W) | @ 1 W,<br>200 LFM<br>(°C/W) | @ 1 W,<br>400 LFM<br>(°C/W) | @ 75°C ΔT,<br>nat conv<br>(W)  |
| HSE08-505028 | 7.13                             | 7.6                          | 2.7                         | 1.8                         | 10.53                          |

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         | 7.6  | 2.7     | 1.8     |
| 2         | 15.6   | 5.0     | 3.5     |
| 3         | 23.7   | 7.7     | 5.1     |
| 4         | 31.8   | 10.4    | 6.7     |
| 5         | 39.4   | 12.9    | 8.5     |
| 6         | 46.7   | 15.7    | 10.2    |
| 7         | 53.4   | 18.4    | 12.1    |
| 8         | 59.9   | 21.2    | 13.9    |
| 9         | 66.0   | 23.9    | 15.5    |
| 10        | 72.1   | 26.8    | 17.4    |
| 11        | 78.0   | 29.5    | 19.1    |
| 12        | 83.6   | 32.3    | 20.9    |
| 13        | 89.3   | 34.9    | 22.7    |
| 14        | 94.6   | 37.6    | 24.5    |
| 15        | 99.4   | 40.1    | 26.4    |
| 16        | 104.5  | 42.9    | 28.1    |
| 17        | 109.6  | 45.8    | 29.9    |
| 18        | 114.3  | 48.5    | 31.6    |
| 19        | 119.5  | 51.3    | 33.4    |
| 20        | 124.3  | 54.3    | 35.2    |



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

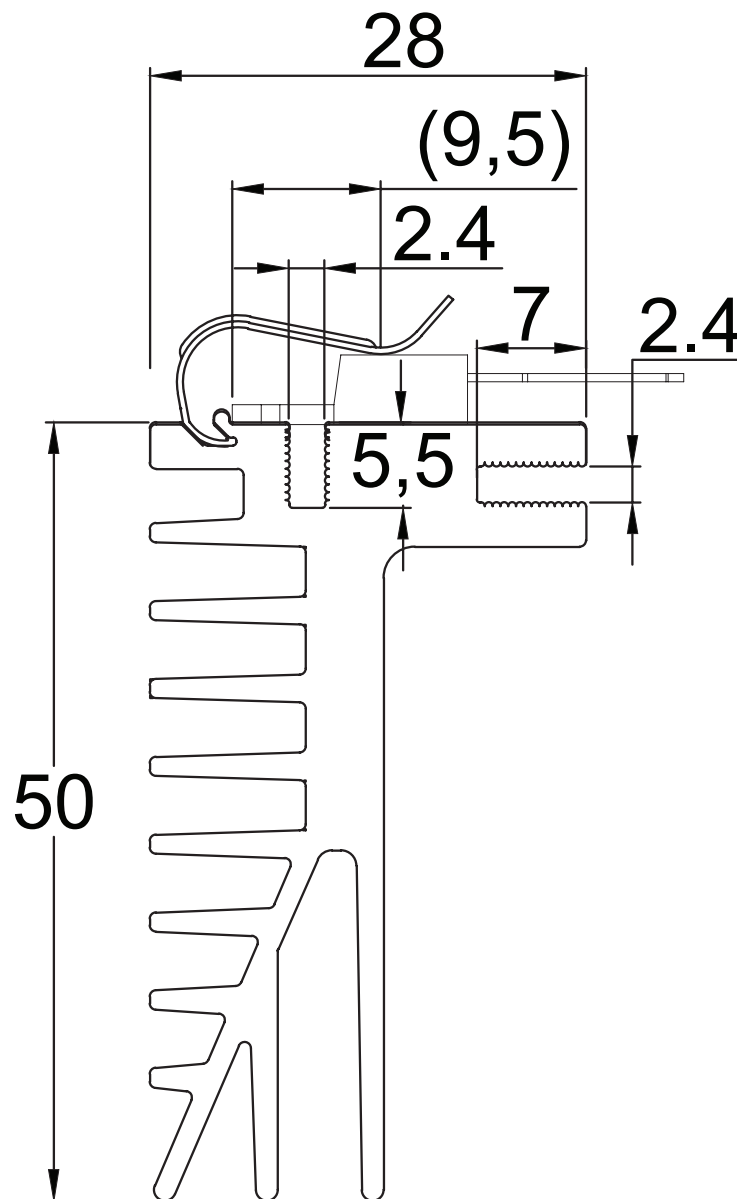
**MECHANICAL DRAWING**

units: mm  
tolerance:  $\pm 0.5$  mm

|          |                |
|----------|----------------|
| MATERIAL | AL 6063-T5     |
| FINISH   | black anodized |
| WEIGHT   | 90.0 g         |
| LENGTH   | 50 mm          |

FOR TO218 CLIP P/N: HSC-07

FOR TO220 CLIP P/N: HSC-08



## REVISION HISTORY

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

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

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# CUI DEVICES

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