

**MODEL:** HSS05-C20-SMT-TR | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 package
- surface mount
- copper alloy
- tin plated

**MODEL**

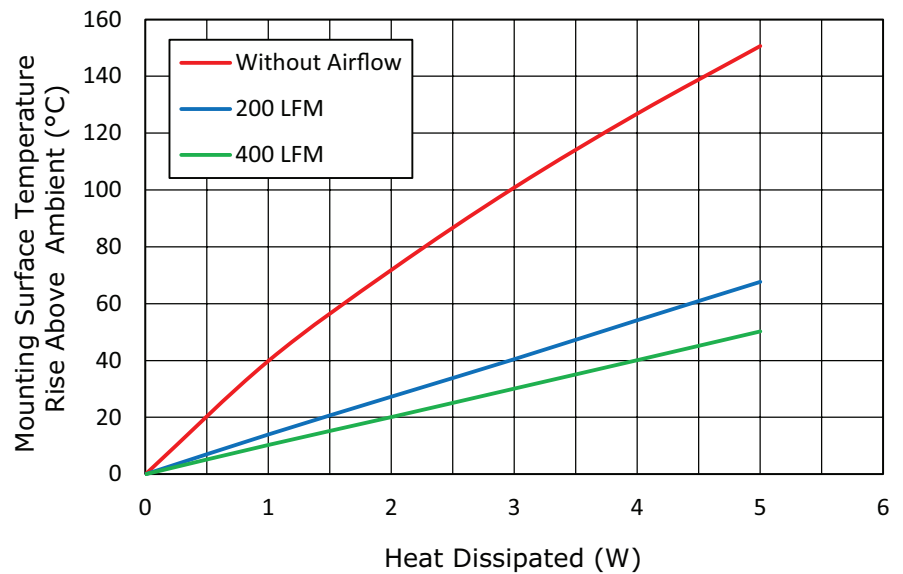
|                  | thermal resistance <sup>1</sup>     |                        |                       |                       | power dissipation <sup>1</sup>   |
|------------------|-------------------------------------|------------------------|-----------------------|-----------------------|----------------------------------|
|                  | @ 75°C $\Delta T$ , nat conv [°C/W] | @ 1 W, nat conv [°C/W] | @ 1 W, 200 LFM [°C/W] | @ 1 W, 400 LFM [°C/W] | @ 75°C $\Delta T$ , nat conv [W] |
| HSS05-C20-SMT-TR | 32.69                               | 39.9                   | 14.00                 | 10.3                  | 2.29                             |

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         | 39.9                                                                       | 14.0    | 10.3    |
| 2         | 71.9                                                                       | 27.3    | 20.1    |
| 3         | 100.9                                                                      | 40.5    | 30.1    |
| 4         | 126.9                                                                      | 54.2    | 40.1    |
| 5         | 150.7                                                                      | 67.7    | 50.2    |

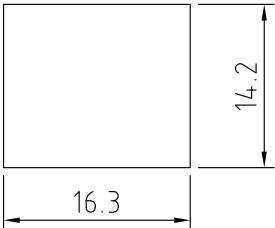
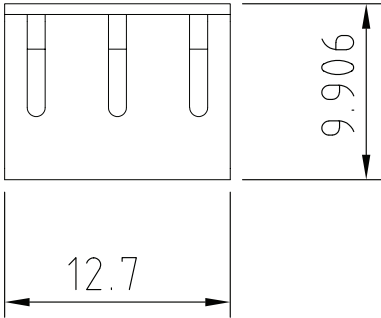
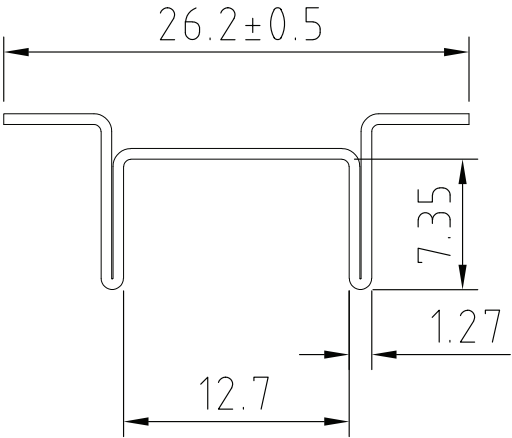
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



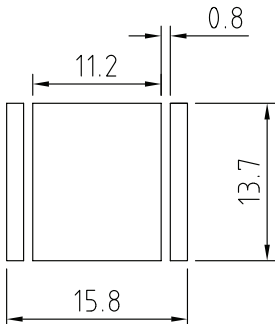
MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|           |        |
|-----------|--------|
| MATERIAL  | C1100  |
| FINISH    | tin    |
| THICKNESS | 0.6 mm |
| WEIGHT    | 6.0 g  |



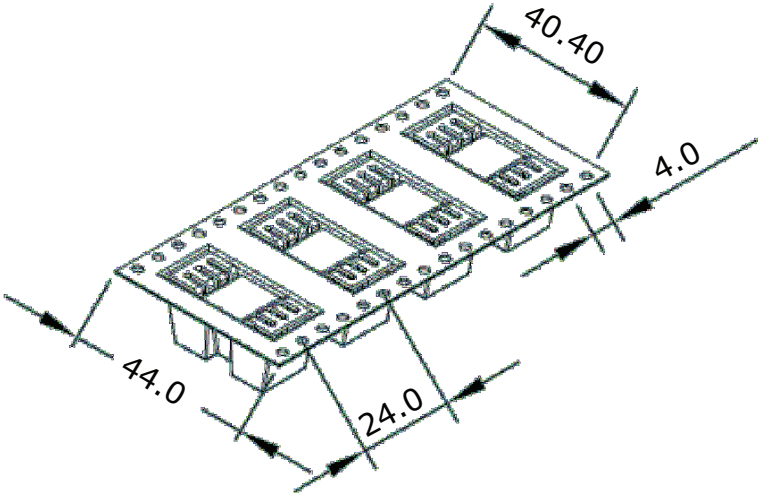
Recommended Copper Heat Spreader Drain Pad Layout  
Top View



Recommended Solder Mask Opening  
Top View

PACKAGING

units: mm  
Reel QTY: 250 pcs per reel



## REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/25/2021 |
| 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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