Additional Resources: Product Page



date 09/12/2024

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MODEL: HSB45-383818 | DESCRIPTION: HEAT SINK

#### **FEATURES**

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





#### thermal resistance1 power **MODEL** dissipation<sup>1</sup> @ 75°C ∆T, nat @ 1 W, @ 75°C ∆T, nat @ 1 W, @ 1W, 400 LFM conv (°C/W) 200 LFM nat conv conv (°C/W) (°C/W) (°C/W) (W) 10.05 13.5 2.9 1.7 7.46 HSB45-383818

Note: 1

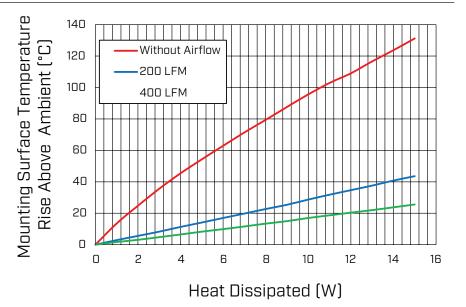
1. See performance curves for full thermal resistance details.

### 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
	Ambie 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	Ambient (ΔT = Ths -  Natural Conv.  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



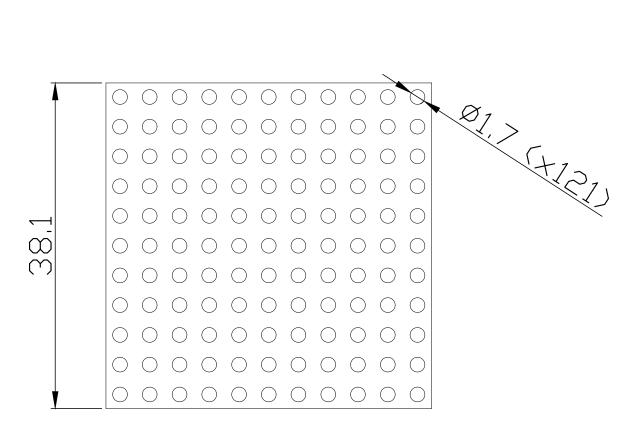
Ta: ambient temperature

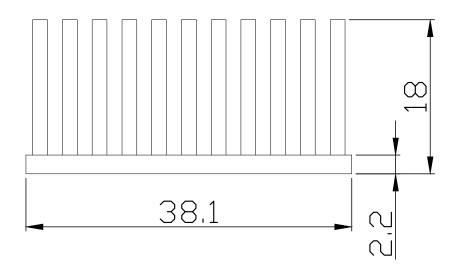


# **MECHANICAL DRAWING**

units: mm tolerance: ±0.50 mm

MATERIAL	copper
FINISH	clean
WEIGHT	72 g





Additional Resources: Product Page

SAME SKY | MODEL: HSB45-383818 | DESCRIPTION: HEAT SINK

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## **REVISION HISTORY**

rev.	description	date
1.0	initial release	03/01/2024
1.01	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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.