

**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> @ 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

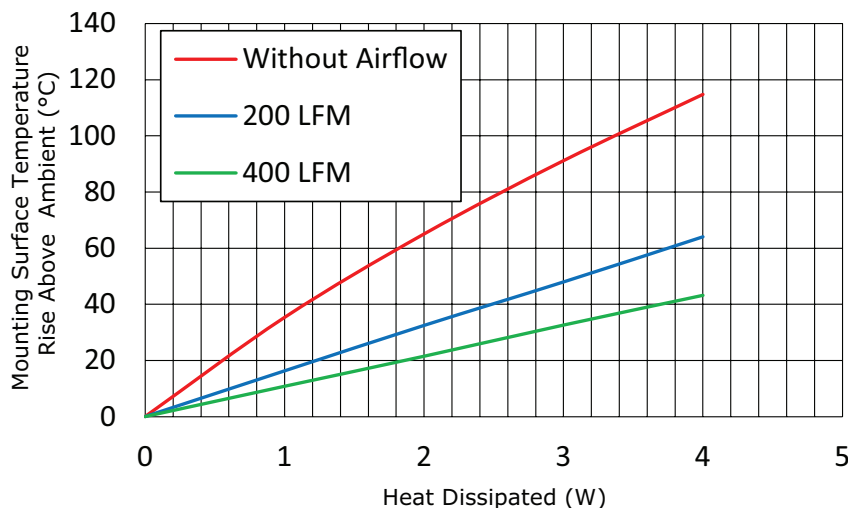
Note: 1. See performance curves for full thermal resistance details.

**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

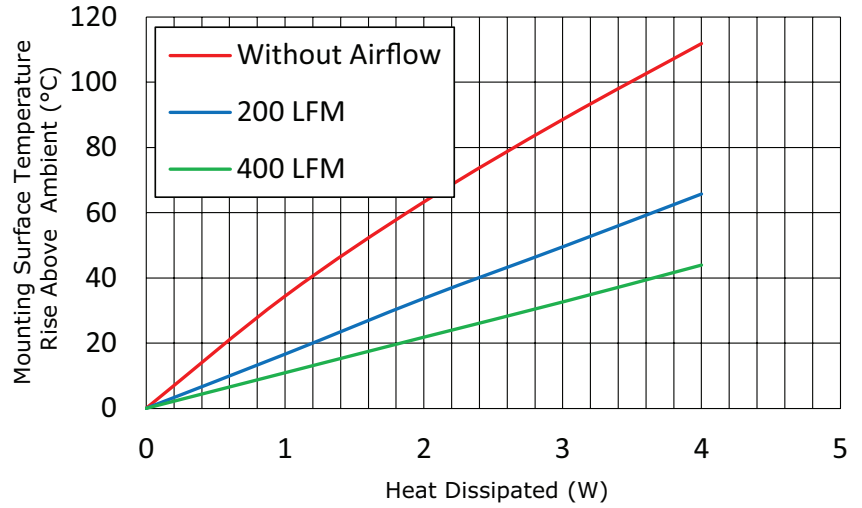


## PERFORMANCE CURVES (CONTINUED)

### HSE04-251265-2

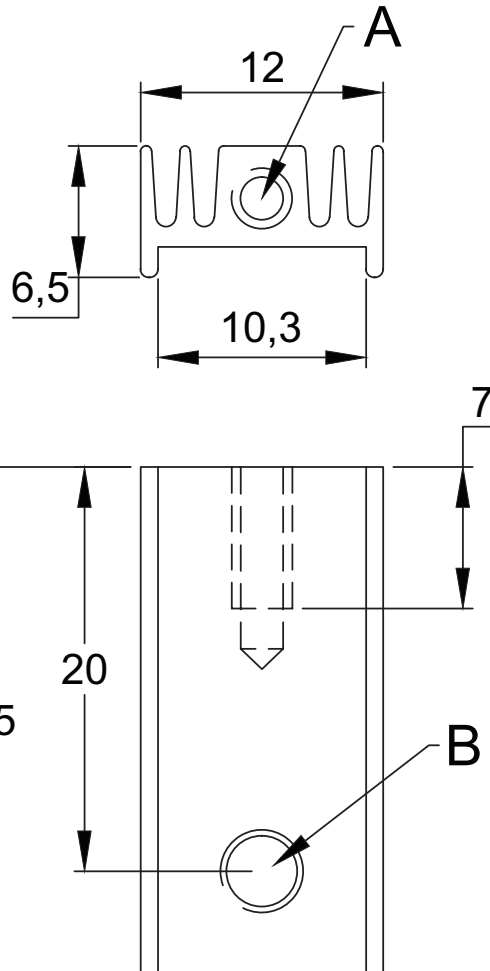
Power (W)	Heatsink Temperature Rise Above Ambient ( $\Delta T = T_{hs} - T_a$ ) [°C]		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	34.4	16.6	10.9
2	63.3	33.7	21.8
3	88.6	49.5	32.6
4	111.9	65.7	43.9

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

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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