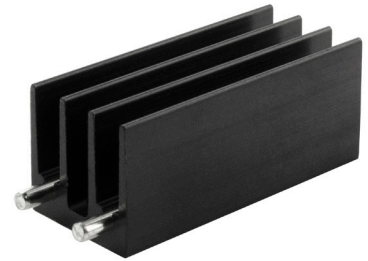


**SERIES:** HSE-BX-04H | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 or TO-218 package
- placement pins for secure PCB attachment
- round hole for component attachment
- multiple available cut lengths

**MODEL**

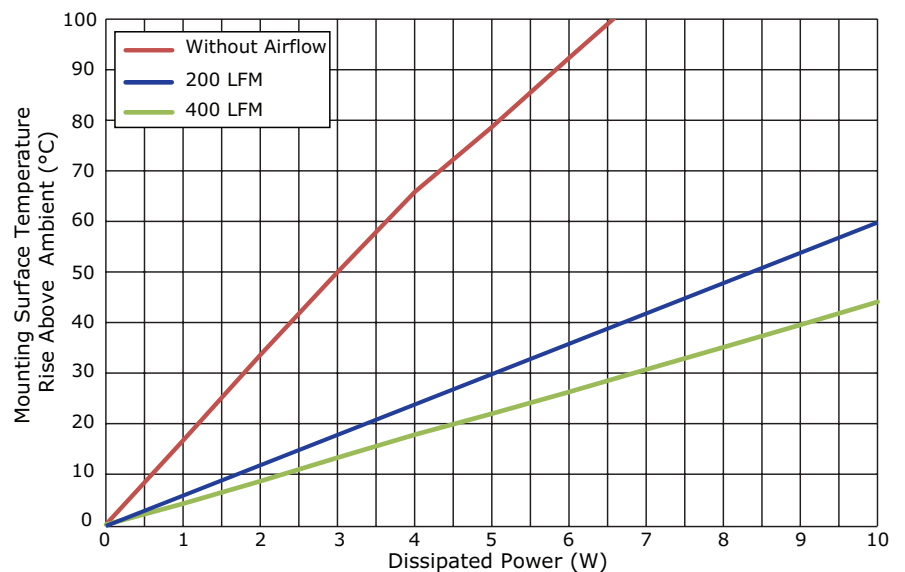
	length [mm]	thermal resistance <sup>1</sup>				power dissipation <sup>1</sup> @ 75°C ΔT, nat conv [W]
		@ 75°C ΔT, nat conv [°C/W]	@ 1 W, nat conv [°C/W]	@ 1 W, 200 LFM [°C/W]	@ 1 W, 400 LFM [°C/W]	
HSE-B254-04H	25.4	15.96	16.65	4.93	4.13	4.70
HSE-B381-04H	38.1	12.71	12.33	4.44	2.57	5.90

Note: 1. See performance curves for full thermal resistance details.  
2. Custom cut to length options available. Thermal data not available on custom lengths.

**PERFORMANCE CURVES****HSE-B254-04H**

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	16.65	4.93	4.13
2	33.54	11.08	8.61
3	49.96	17.20	13.23
4	65.78	23.50	17.80
5	78.65	29.14	21.94
6	92.33	35.03	26.22
7	105.77	41.10	30.69
8	117.14	46.59	35.07
9	127.85	53.10	39.55
10	137.37	59.79	44.08

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

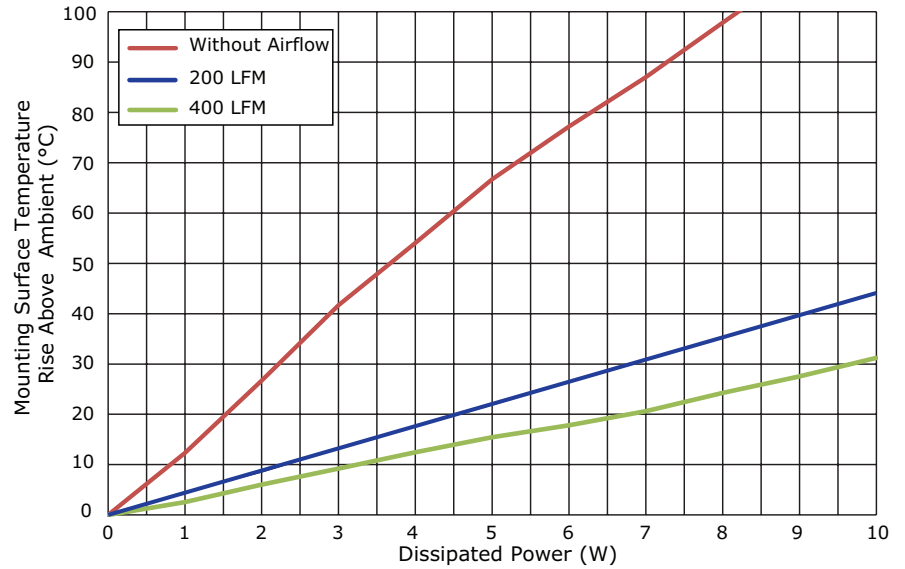


## PERFORMANCE CURVES (CONTINUED)

### HSE-B381-04H

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	12.33	4.44	2.57
2	26.70	8.40	6.04
3	41.68	13.14	9.20
4	54.04	17.42	12.44
5	66.70	21.73	15.45
6	77.18	26.26	17.85
7	86.99	30.62	20.63
8	97.85	35.10	24.27
9	108.50	39.48	27.54
10	117.17	44.10	31.21

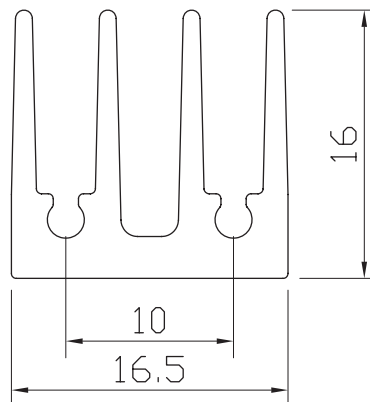
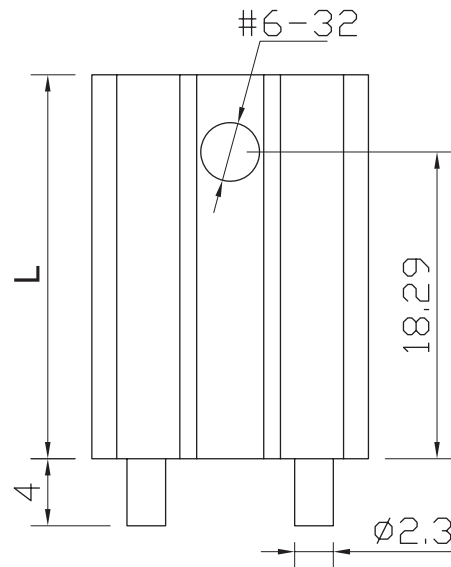
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm

MATERIAL	AL 6063-T5
FINISH	black anodized
PIN MATERIAL	steel
PIN PLATING	tin



MODEL NO.	LENGTH, L [mm]	WEIGHT [g]
HSE-B254-04H	25.4	9.5
HSE-B381-04H	38.1	15.4

## REVISION HISTORY

rev.	description	date
1.0	initial release	04/26/2017
1.01	brand update	02/11/2020
1.02	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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