

**MODEL:** HSE-BX-056H | **DESCRIPTION:** HEAT SINK**FEATURES**

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

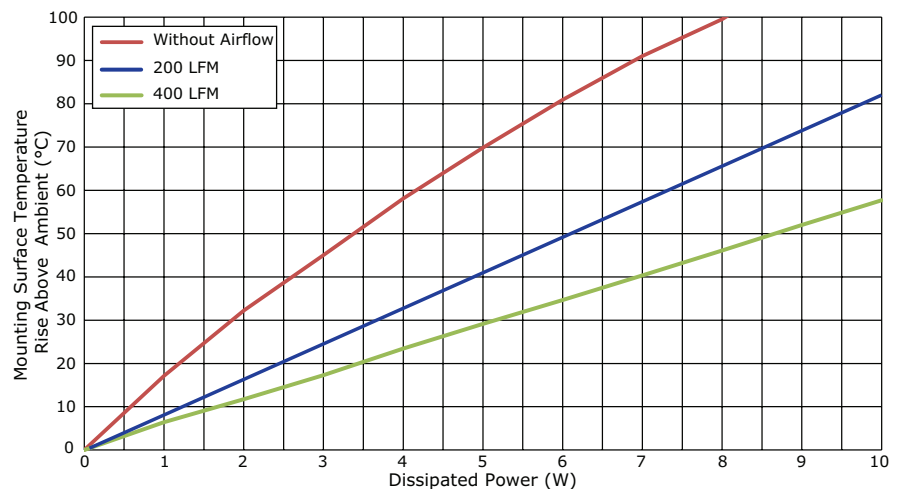
**MODEL**

	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-B20254-056H	25.4	13.64	17.13	8.36	6.41	5.50
HSE-B20381-056H	38.1	11.19	15.00	3.53	2.56	6.70

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-B20254-056H**

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	17.13	8.36	6.41
2	32.20	17.46	11.75
3	45.00	24.87	17.28
4	58.12	32.88	23.43
5	69.84	40.99	29.16
6	80.93	48.89	34.64
7	91.01	56.79	40.37
8	99.56	65.43	46.09
9	110.81	72.66	52.01
10	118.44	82.03	57.73



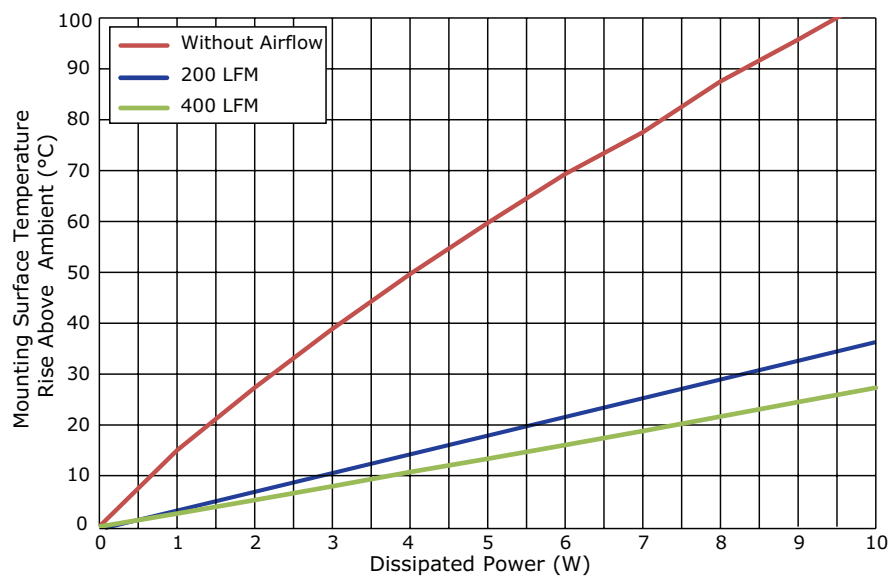
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature

## PERFORMANCE CURVES (CONTINUED)

### HSE-B20381-056H

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	15.00	3.53	2.56
2	27.32	7.15	5.23
3	38.89	10.82	7.90
4	49.63	14.38	10.72
5	59.72	17.90	13.32
6	69.31	21.80	16.03
7	77.53	25.42	18.80
8	87.53	28.89	21.65
9	95.75	32.68	24.48
10	104.38	36.30	27.29

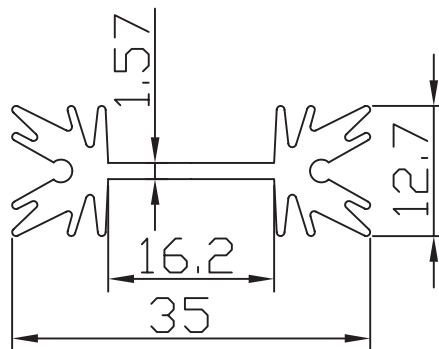
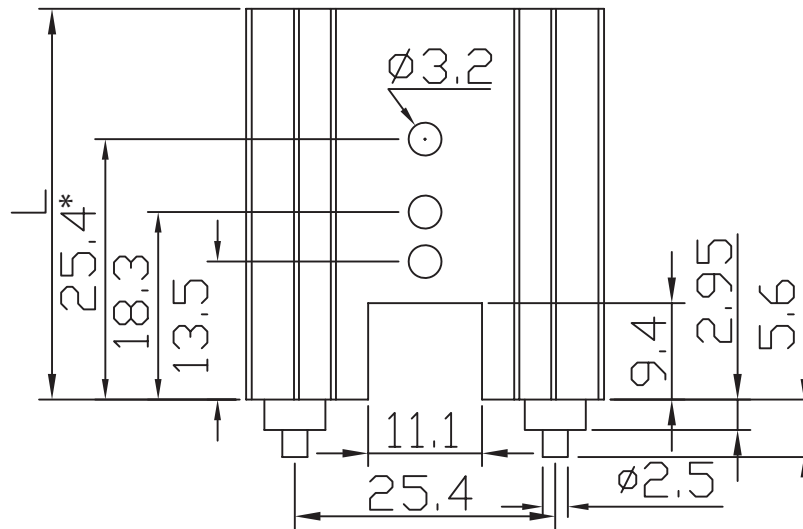
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



## 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-B20254-056H*	25.4	11.33
HSE-B20381-056H	38.1	16.67

Note: \* Mounting hole not present on 25.4 mm length model.

## REVISION HISTORY

rev.	description	date
1.0	initial release	05/05/2017
1.01	updated datasheet	09/07/2017
1.02	brand update	02/11/2020
1.03	logo, datasheet style update	08/05/2022

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



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