

date 08/05/2022

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### SERIES: HSE-BX-040H | DESCRIPTION: HEAT SINK

#### **FEATURES**

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





MODEL		thermal resistance <sup>1</sup>				
	length	<b>@ 75°C ∆T, nat</b> conv (°C/W)	@ 1 W, nat conv	@ 1 W, 200 LFM	@ 1 W, 400 LFM	@ 75°C ∆T, nat conv
	(mm)		(°C/W)	(°C/W)	(°C/W)	(W)
HSE-B20254-040H	25.4	13.16	16.13	7.74	5.77	5.70
HSE-B20381-040H	38.1	11.54	12.28	3.62	2.88	6.50

Note:

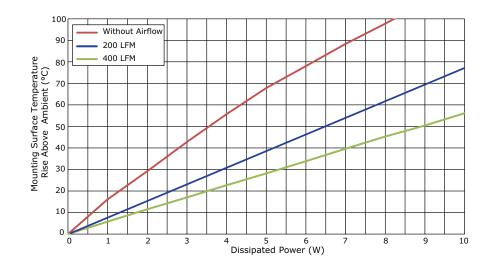
### PERFORMANCE CURVES

#### HSE-B20254-040H

Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Natural Conv.	200 LFM	400 LFM	
0	0	0	
16.13	7.74	5.77	
29.25	15.62	11.53	
42.80	23.81	17.04	
55.72	31.68	22.66	
67.84	39.53	28.21	
78.06	47.35	33.83	
88.34	54.42	39.65	
97.77	62.21	45.28	
107.55	69.81	50.42	
117.33	77.16	56.11	
	Ambier Natural Conv.  0 16.13 29.25 42.80 55.72 67.84 78.06 88.34 97.77 107.55	Ambient (ΔT = Ths - Ths	



Ta: ambient temperature



<sup>1.</sup> See performance curves for full thermal resistance details.

<sup>2.</sup> Custom cut to length options available. Thermal data not available on custom lengths.

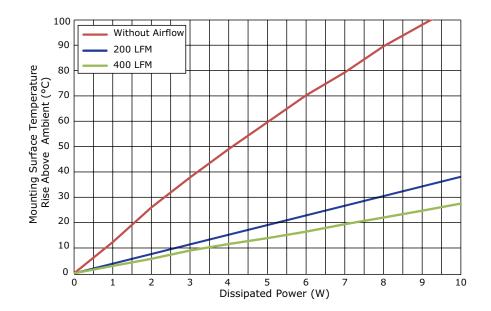
# PERFORMANCE CURVES (CONTINUED)

### HSE-B20381-040H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	12.28	3.62	2.88	
2	25.96	7.21	5.70	
3	37.80	11.15	8.98	
4	49.04	14.86	11.55	
5	59.64	18.82	13.90	
6	70.27	22.54	16.43	
7	79.30	26.31	19.41	
8	89.57	30.28	21.97	
9	98.10	34.00	24.72	
10	106.51	38.10	27.50	





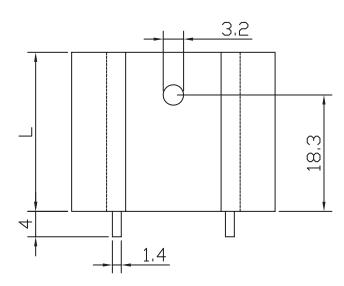


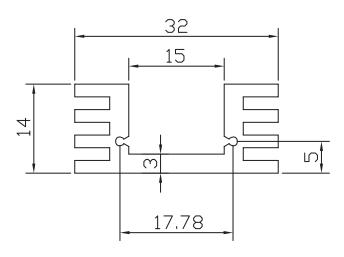
## **MECHANICAL DRAWING**

units: mm

tolerance: ±0.5 mm

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





MODEL NO.	LENGTH, L (mm)	WEIGHT (g)
HSE-B20254-040H	25.4	15.5
HSE-B20381-040H	38.1	23.19

### **REVISION HISTORY**

rev.	description	date
1.0	initial release	05/04/2017
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.



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