

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

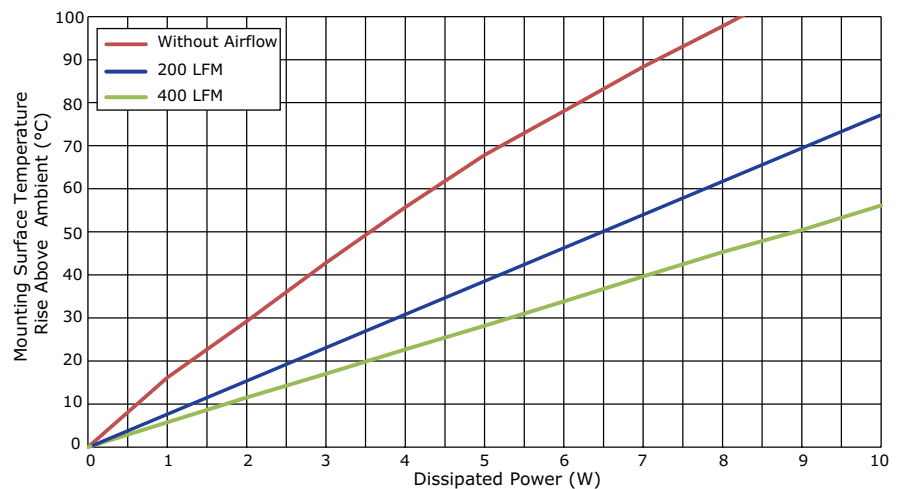
	length [mm]	thermal resistance ¹				power dissipation ¹ @ 75°C ΔT, nat conv [W]
		@ 75°C ΔT, nat conv [°C/W]	@ 1 W, nat conv [°C/W]	@ 1 W, 200 LFM [°C/W]	@ 1 W, 400 LFM [°C/W]	
HSE-B20254-040H	25.4	13.16	16.13	7.74	5.77	5.70
HSE-B20381-040H	38.1	11.54	12.28	3.62	2.88	6.50

Note: 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-B20254-040H

Power [W]	Heatsink Temperature Rise Above Ambient [ΔT = T _{hs} - T _a] [°C]		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	16.13	7.74	5.77
2	29.25	15.62	11.53
3	42.80	23.81	17.04
4	55.72	31.68	22.66
5	67.84	39.53	28.21
6	78.06	47.35	33.83
7	88.34	54.42	39.65
8	97.77	62.21	45.28
9	107.55	69.81	50.42
10	117.33	77.16	56.11



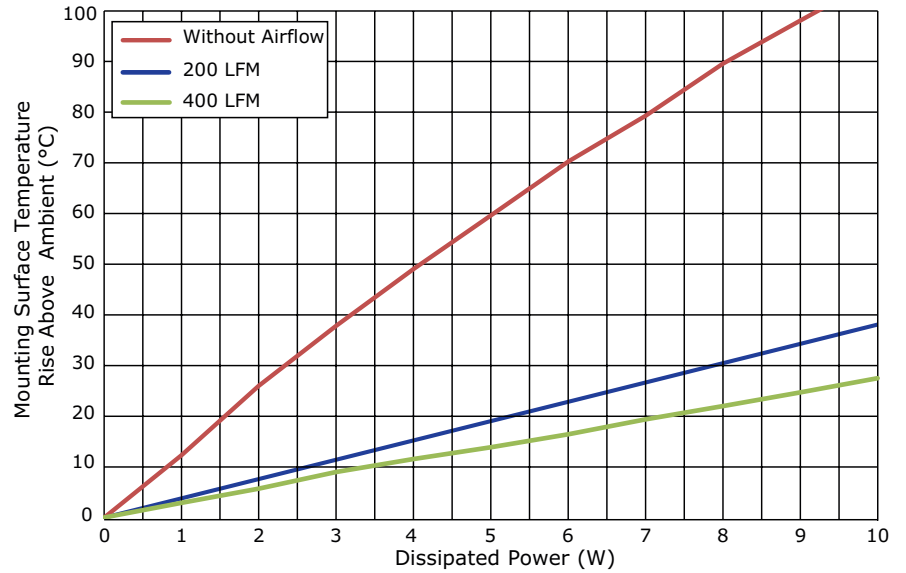
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature

PERFORMANCE CURVES (CONTINUED)

HSE-B20381-040H

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	12.28	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

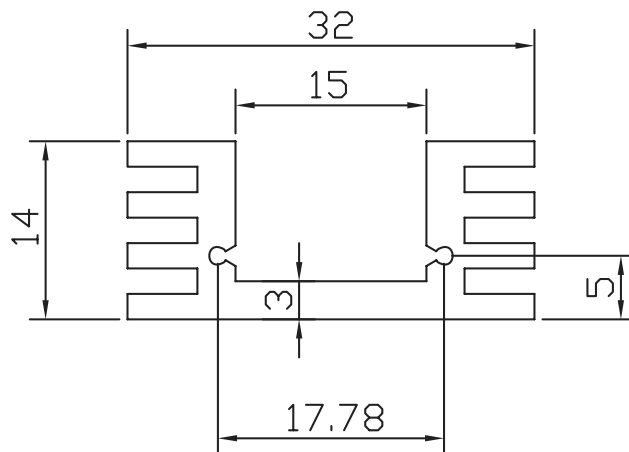
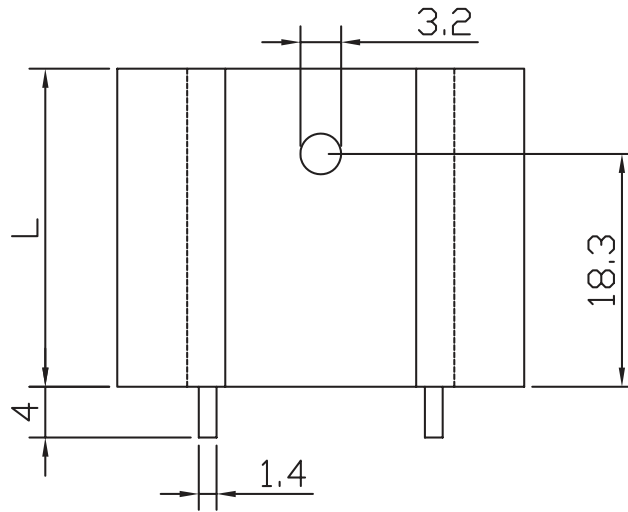
T_{hs} : "hot spot" temperature measured on the heatsink
 T_a : ambient temperature



MECHANICAL DRAWING

units: mm
tolerance: ±0.5 mm

MATERIAL	AL 6063-T5
FINISH	black anodized
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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