CUI DEVICES

SERIES: HSE-B20X-01 | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- placement pins for secure PCB attachment
- slide in style
- multiple available cut lengths





thermal resistance ¹				power dissipation ¹	
length (mm)	@ 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)	@ 75°C ∆T, nat conv (W)
25	13.64	18.58	4.44	3.30	5.50
38	10.27	13.31	5.77	3.68	7.30
50	8.43	11.67	2.85	1.91	8.90
63	8.24	11.01	4.46	2.97	9.10
	(mm) 25 38 50	nat conv (mm) nat conv (°C/W) 25 13.64 38 10.27 50 8.43	length @ 75°C ΔT, nat conv (°C/W) @ 1 W, nat conv (°C/W) 25 13.64 18.58 38 10.27 13.31 50 8.43 11.67	length@ 75°C ΔT, nat conv (°C/W)@ 1 W, nat conv (°C/W)@ 1 W, 200 LFM (°C/W)2513.6418.584.443810.2713.315.77508.4311.672.85	length@ 75°C ΔT, nat conv (°C/W)@ 1 W, nat conv (°C/W)@ 1 W, 400 LFM (°C/W)2513.6418.584.443.303810.2713.315.773.68508.4311.672.851.91

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

2. Custom cut to length options available. Thermal data not available on custom lengths.

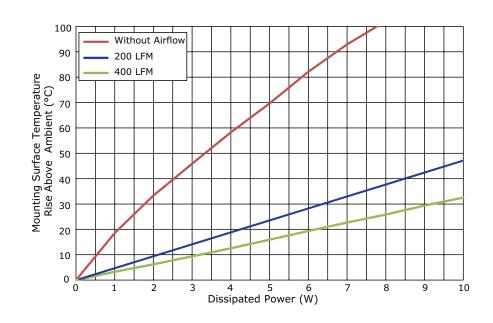
PERFORMANCE CURVES

HSE-B20250-040H-01

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	18.58	4.44	3.30	
2	33.32	9.59	6.21	
3	45.87	14.21	9.38	
4	58.26	18.79	12.55	
5	69.68	23.71	15.95	
6	82.14	28.49	19.39	
7	92.93	32.90	22.71	
8	102.15	37.44	25.85	
9	110.43	42.50	29.39	
10	117.47	47.13	32.50	

Ths: "hot spot" temperature measured on the heatsink Ta: ambient temperature

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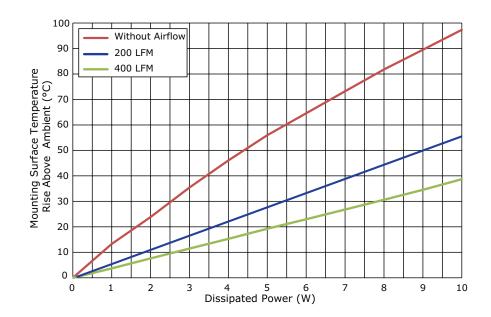


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PERFORMANCE CURVES (CONTINUED)

HSE-B20380-040H-01

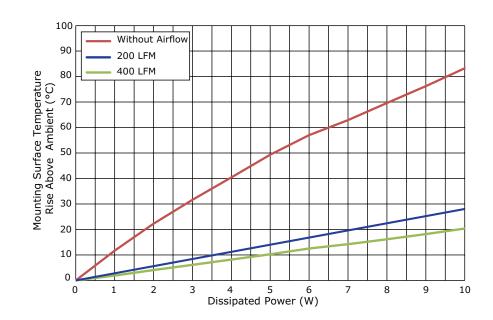
	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	13.31	5.77	3.68	
2	23.81	11.53	7.60	
3	35.45	17.15	11.49	
4	46.08	22.72	15.29	
5	55.96	28.33	19.24	
6	64.57	33.55	22.98	
7	73.20	38.93	26.79	
8	81.80	44.23	30.63	
9	89.50	50.00	34.54	
10	97.33	55.53	38.67	



Ths: "hot spot" temperature measured on the heatsink Ta: ambient temperature

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	11.67	2.85	1.91
2	22.26	5.68	4.07
3	31.61	8.58	6.11
4	40.44	11.07	8.18
5	49.31	14.07	10.26
6	57.03	16.67	12.51
7	62.88	19.49	14.23
8	69.61	22.33	16.13
9	76.25	25.14	18.16
10	83.27	28.02	20.35

HSE-B20500-040H-01



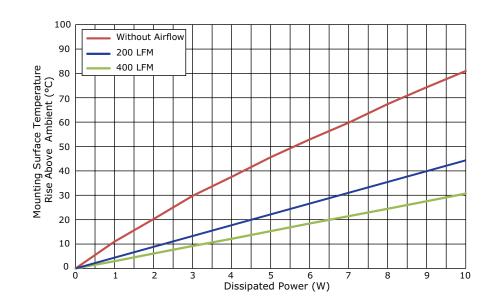
Ths: "hot spot" temperature measured on the heatsink Ta: ambient temperature

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PERFORMANCE CURVES (CONTINUED)

HSE-B20630-040H-01

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	11.01	4.46	2.97	
2	20.23	8.99	6.12	
3	29.76	13.50	9.20	
4	37.54	18.04	12.16	
5	45.62	22.74	15.31	
6	52.89	27.33	18.44	
7	59.78	31.53	21.42	
8	67.39	35.77	24.49	
9	74.31	40.18	27.56	
10	80.97	44.35	30.69	



Ths: "hot spot" temperature measured on the heatsink Ta: ambient temperature

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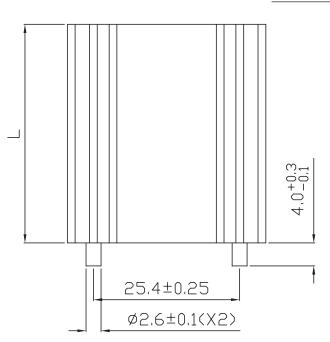
MECHANICAL DRAWING

units: mm tolerance: ±0.5 mm

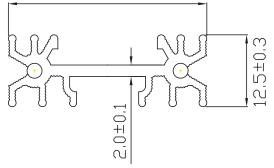
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MATERIAL	AL 6063-T5
FINISH	black anodized
PIN MATERIAL	steel
PIN PLATING	tin

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34,5±0,3



MODEL NO.	LENGTH, L (mm)	WEIGHT (g)
HSE-B20250-040H-01	25	11.33
HSE-B20380-040H-01	38	16.67
HSE-B20500-040H-01	50	19.45
HSE-B20630-040H-01	63	24.16

REVISION HISTORY

rev.	description	date
1.0	initial release	05/02/2017
1.01	brand update	02/10/2020

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

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