

Additional Resources: Product Page

date 09/12/2024

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## SERIES: HSE-BX-04H-01 | DESCRIPTION: HEAT SINK

#### **FEATURES**

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





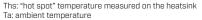
MODEL		thermal resistance <sup>1</sup>				power dissipation <sup>1</sup>
	length (mm)	<b>@ 75°C ∆T, nat</b> conv (°C/W)	<b>@ 1 W,</b> nat conv (°C/W)	<b>@ 1 W,</b> <b>200 LFM</b> (°C/W)	<b>@ 1 W,</b> <b>400 LFM</b> (°C/W)	<b>@ 75°C ∆T, nat</b> conv (W)
HSE-B250-04H	25	9.38	13.60	3.26	2.25	8.00
HSE-B500-04H	50	6.15	8.05	2.88	2.12	12.20
HSE-B630-04H	63	5.21	9.37	2.31	1.86	14.40

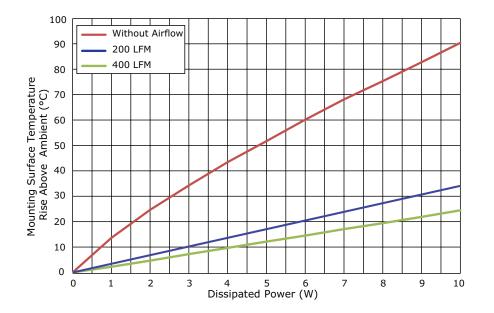
Note:

### **PERFORMANCE CURVES**

### HSE-B250-04H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	13.60	3.26	2.25	
2	24.62	6.61	4.65	
3	34.26	10.05	7.18	
4	43.45	13.46	9.67	
5	51.69	16.85	12.11	
6	60.18	20.16	14.49	
7	68.13	23.72	17.06	
8	75.33	27.06	19.37	
9	82.77	30.36	21.85	
10	90.41	34.06	24.45	





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

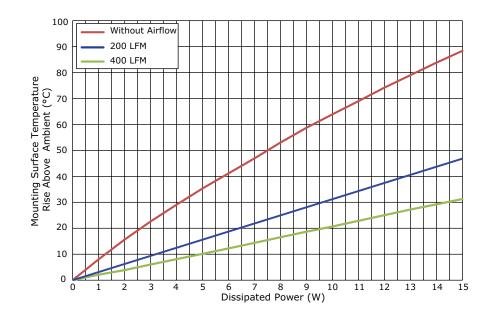
<sup>2.</sup> Custom cut to length options available. Thermal data not available on custom lengths.

# PERFORMANCE CURVES (CONTINUED)

### HSE-B500-04H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	8.05	2.88	2.12
2	15.65	6.20	3.91
3	22.61	9.34	6.03
4	29.06	12.43	8.12
5	35.34	15.82	10.15
6	41.17	18.99	12.26
7	46.96	22.14	14.37
8	53.06	24.84	16.58
9	58.73	28.02	18.67
10	63.92	31.30	20.68
11	69.02	34.30	22.85
12	74.20	37.50	25.06
13	78.99	40.75	27.25
14	83.83	43.67	29.22
15	88.40	46.82	31.27



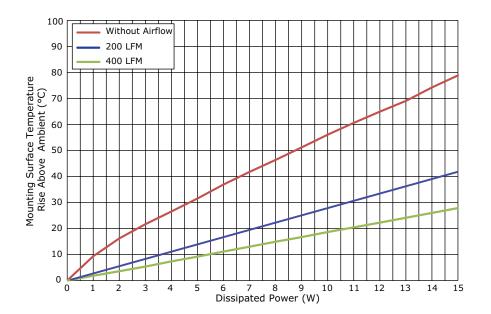


# PERFORMANCE CURVES (CONTINUED)

### HSE-B630-04H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	9.37	2.31	1.86	
2	16.20	5.02	3.59	
3	21.68	7.73	5.38	
4	26.57	10.57	7.35	
5	31.54	13.41	9.19	
6	36.91	16.34	11.16	
7	41.76	19.19	13.04	
8	46.40	22.17	14.92	
9	51.20	24.95	16.72	
10	56.07	27.66	18.66	
11	60.60	30.53	20.46	
12	64.94	33.33	22.27	
13	69.05	36.12	24.13	
14	74.21	38.78	26.01	
15	78.87	41.82	27.89	

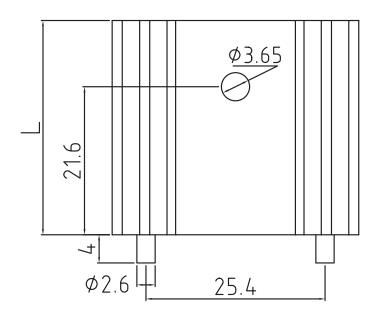


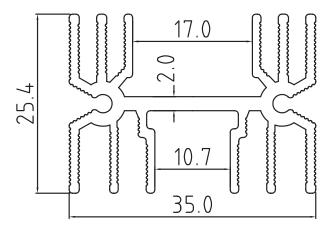


# **MECHANICAL DRAWING**

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-B250-04H	25	21.33
HSE-B500-04H	50	35.7
HSE-B630-04H	63	43.4

### **REVISION HISTORY**

rev.	description	date
1.0	initial release	05/08/2017
1.01	brand update	02/11/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/12/2024

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



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