Additional Resources: Product Page | 3D Model

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

FEATURES

- TO-220 or TO-218 package
- placement pins for secure PCB attachment
- round hole for component attachment

same sky

• multiple available cut lengths





MODEL	thermal resistance ¹				power dissipation ¹	
	length (mm)	© 75°C ∆T, 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
	25.4	15.96	16.65	4.93	4.13	(W) 4.70
HSE-B381-04H	38.1	12.71	12.33	4.44	2.57	5.90

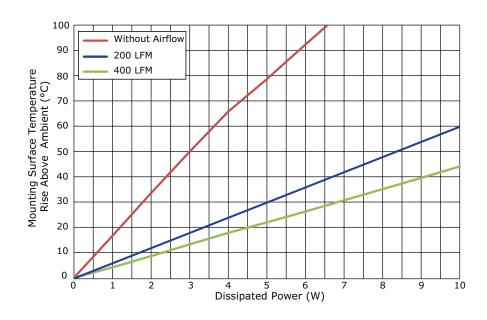
Note: 1. See performance curves for full thermal resistance details.

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

PERFORMANCE CURVES

HSE-B254-04H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	O	D	0	
1	16.65	4.93	4.13	
2	33.54	11.08	8.61	
3	49.96	17.20	13.23	
4	65.78	23.50	17.80	
5	78.65	29.14	21.94	
6	92.33	35.03	26.22	
7	105.77	41.10	30.69	
8	117.14	46.59	35.07	
9	127.85	53.10	39.55	
10	137.37	59.79	44.08	



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

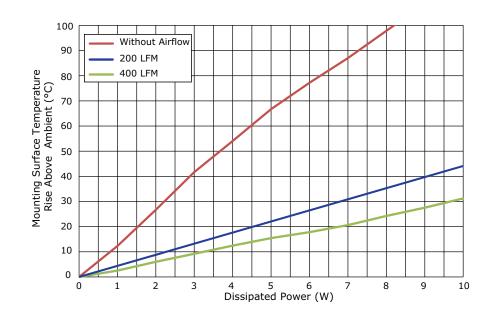
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PERFORMANCE CURVES (CONTINUED)

HSE-B381-04H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	0	
1	12.33	4.44	2.57	
2	26.70	8.40	6.04	
3	41.68	13.14	9.20	
4	54.04	17.42	12.44	
5	66.70	21.73	15.45	
6	77.18	26.26	17.85	
7	86.99	30.62	20.63	
8	97.85	35.10	24.27	
9	108.50	39.48	27.54	
10	117.17	44.10	31.21	



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

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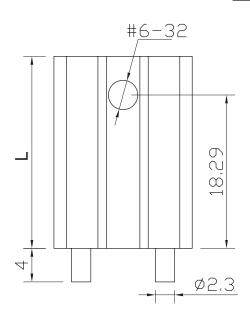
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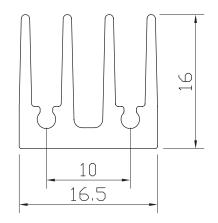
MECHANICAL DRAWING

units: mm tolerance: ±0.5 mm

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

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MODEL NO.	LENGTH, L (mm)	WEIGHT (g)
HSE-B254-04H	25.4	9.5
HSE-B381-04H	38.1	15.4

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REVISION HISTORY

rev.	description	date
1.0	initial release	04/26/2017
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.

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

same sky

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.