

**date** 04/26/2017

page 1 of 4

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
- multiple available cut lengths





MODEL	thermal resistance <sup>1</sup>				power dissipation <sup>1</sup>	
	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 (W)
HSE-B254-04H	25.4	15.96	16.65	4.93	4.13	4.70
HSE-B381-04H	38.1	12.71	12.33	4.44	2.57	5.90

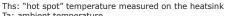
Note:

- 1. See performance curves for full thermal resistance details.
- 2. Custom cut to length options available. Thermal data not available on custom lengths.

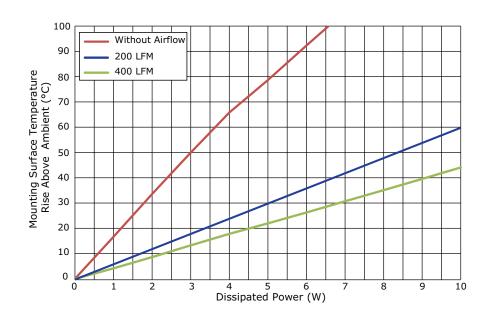
### **PERFORMANCE CURVES**

#### HSE-B254-04H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)			
Power (W)	Natural Conv.	200 LFM	400 LFM	
0	0	0	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	



Ta: ambient temperature



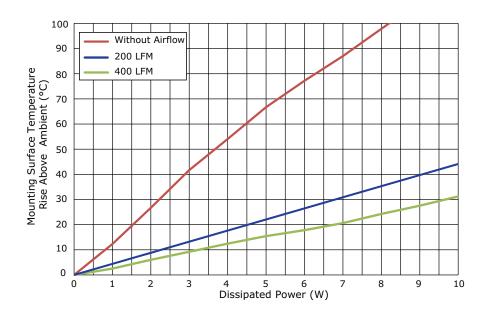
# **PERFORMANCE CURVES (CONTINUED)**

### HSE-B381-04H

	Heatsink Temperature Rise Above Ambient ( $\Delta T = Ths - Ta$ ) (°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	



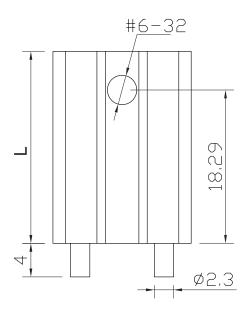
Ta: ambient temperature

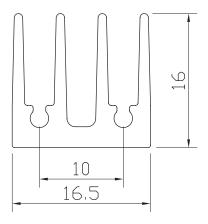


# **MECHANICAL DRAWING**

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-B254-04H	25.4	9.5
HSE-B381-04H	38.1	15.4

# REVISION HISTORY

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

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



**Headquarters** 20050 SW 112th Ave. Tualatin, OR 97062 **800.275.4899** 

Fax 503.612.2383 **cui**.com techsupport@cui.com

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

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.