

**SERIES:** HSE-18X | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-218 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-B18254-0396H	25.4	9.15	11.15	2.29	2.07	8.20
HSE-B18318-0396H	31.8	8.24	9.93	2.57	1.80	9.10
HSE-B18381-0396H	38.1	6.94	8.71	2.29	1.80	10.80
HSE-B18508-0396H	50.8	5.86	7.62	2.45	1.79	12.80
HSE-B18635-0396H	63.5	5.47	7.36	2.78	1.55	13.70

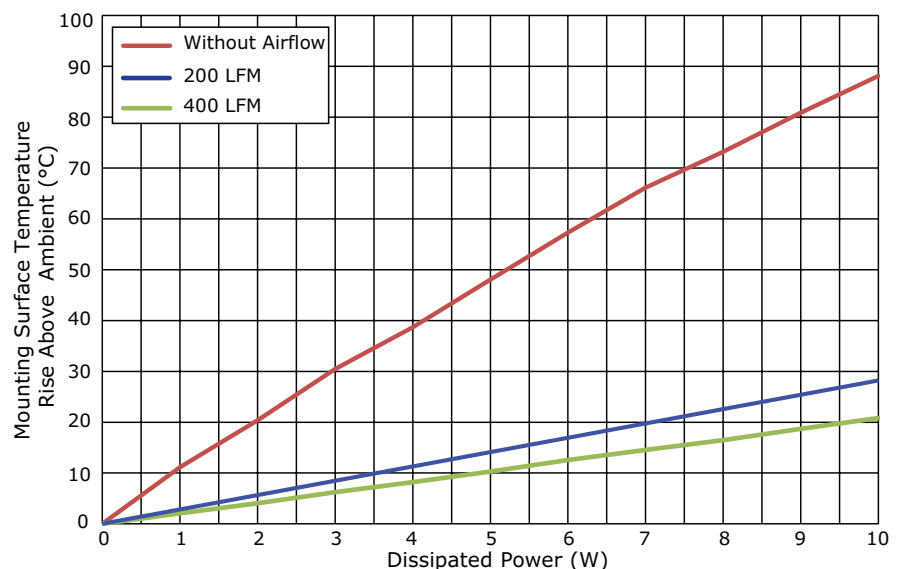
Note:

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-B18254-0396H**

Heatsink Temperature Rise Above Ambient (ΔT = T _{hs} - T _a) [°C]			
Power [W]	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	11.15	2.29	2.07
2	20.39	4.95	4.07
3	30.47	7.76	6.21
4	38.70	11.00	8.23
5	48.05	13.96	10.29
6	57.30	16.92	12.55
7	66.12	19.68	14.54
8	73.21	22.63	16.48
9	80.86	25.48	18.68
10	88.12	28.22	20.84

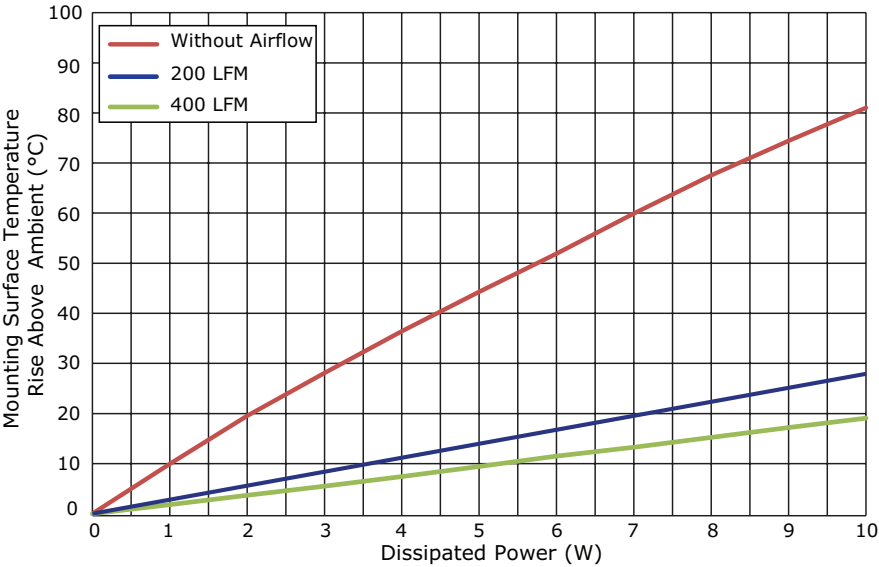
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature

PERFORMANCE CURVES (CONTINUED)

HSE-B18318-0396H

Heatsink Temperature Rise Above Ambient ($\Delta T = T_{hs} - T_a$) [°C]			
Power [W]	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	9.93	2.57	1.80
2	19.55	5.41	3.67
3	28.10	8.10	5.47
4	36.39	10.89	7.40
5	44.29	13.77	9.45
6	51.91	16.50	11.49
7	59.92	19.29	13.27
8	67.55	22.14	15.22
9	74.45	24.97	17.22
10	81.01	27.92	19.08

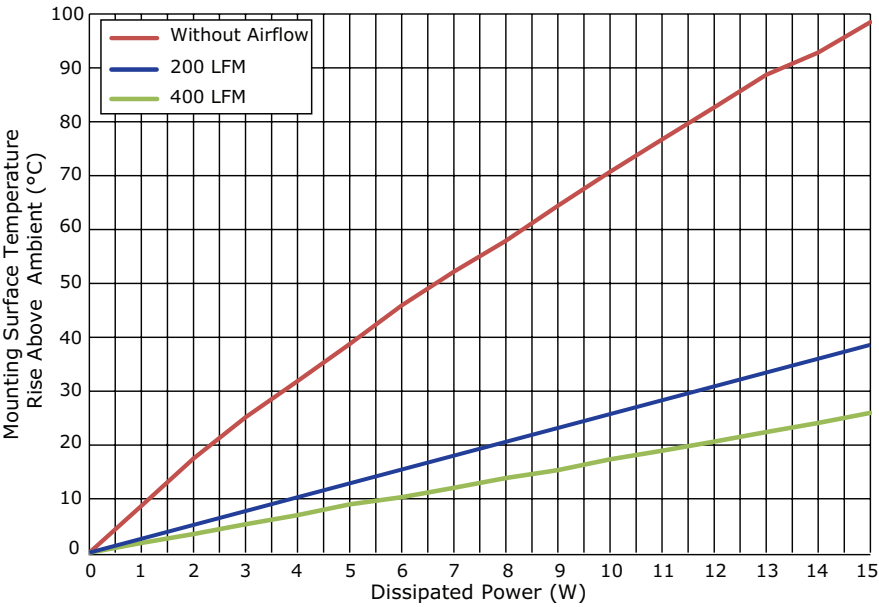
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature



HSE-B18381-0396H

Heatsink Temperature Rise Above Ambient ($\Delta T = T_{hs} - T_a$) [°C]			
Power [W]	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	8.71	2.29	1.80
2	17.51	4.67	3.45
3	25.16	6.92	5.27
4	31.88	9.51	6.96
5	38.73	11.93	9.00
6	45.88	14.31	10.31
7	52.16	16.91	12.03
8	57.90	19.57	13.87
9	64.39	22.26	15.35
10	70.70	24.56	17.34
11	76.71	27.23	18.94
12	82.68	30.24	20.62
13	88.72	32.89	22.43
14	92.86	35.95	24.08
15	98.52	38.57	25.96

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

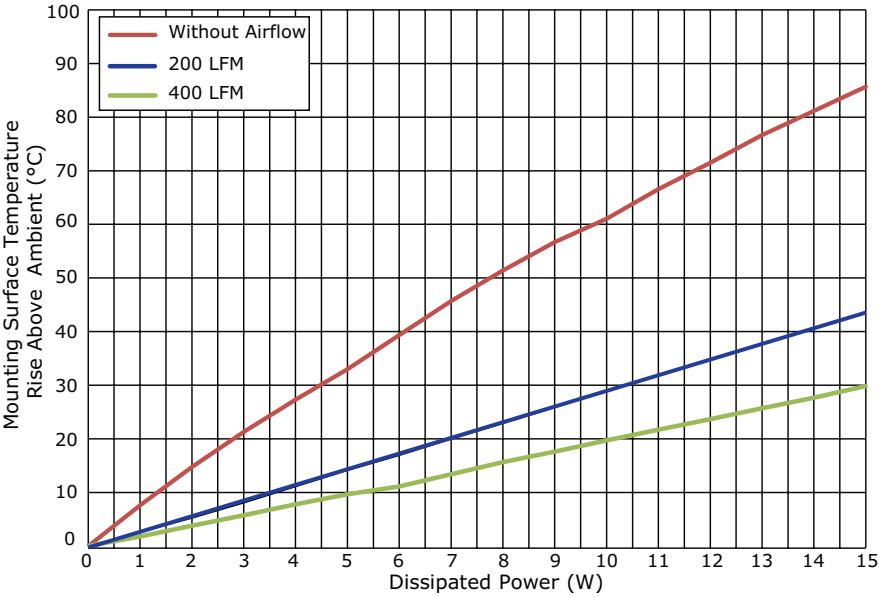


PERFORMANCE CURVES (CONTINUED)

HSE-B18508-0396H

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	7.62	2.45	1.79
2	14.75	5.07	3.78
3	21.30	7.93	5.77
4	27.29	10.95	7.77
5	33.00	13.97	9.65
6	39.34	16.78	11.13
7	45.69	19.80	13.41
8	51.39	22.76	15.66
9	56.70	25.71	17.63
10	61.04	28.78	19.70
11	66.55	31.89	21.71
12	71.51	34.70	23.68
13	76.66	37.87	25.70
14	81.16	40.44	27.66
15	85.69	43.56	29.84

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

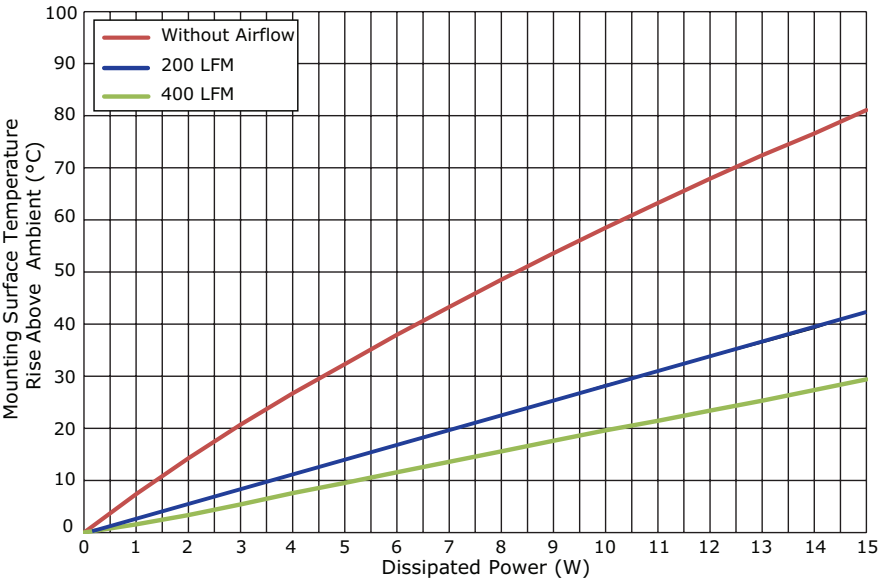


PERFORMANCE CURVES (CONTINUED)

HSE-B18635-0396H

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	7.36	2.78	1.55
2	14.26	5.51	3.34
3	20.72	8.49	5.38
4	26.71	11.30	7.58
5	32.32	13.90	9.50
6	37.95	17.05	11.58
7	43.27	19.88	13.58
8	48.53	22.56	15.55
9	53.62	25.41	17.59
10	58.48	28.50	19.59
11	63.26	30.79	21.43
12	67.93	33.63	23.37
13	72.42	36.30	25.31
14	76.58	39.06	27.34
15	81.06	42.34	29.38

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



REVISION HISTORY

rev.	description	date
1.0	initial release	05/11/2017
1.01	brand update	02/10/2020
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 reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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.

sameskydevices.com