

**SERIES:** HSE-B18X-035H | **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-B18254-035H	25.4	9.26	13.52	3.09	2.86	8.10
HSE-B18317-035H	31.75	7.65	10.96	3.63	2.80	9.80
HSE-B18381-035H	38.1	6.25	8.34	3.52	2.48	12.00
HSE-B18508-035H	50.8	5.86	8.63	2.98	2.21	12.80
HSE-B18635-035H	63.5	4.49	6.61	2.24	1.22	16.70

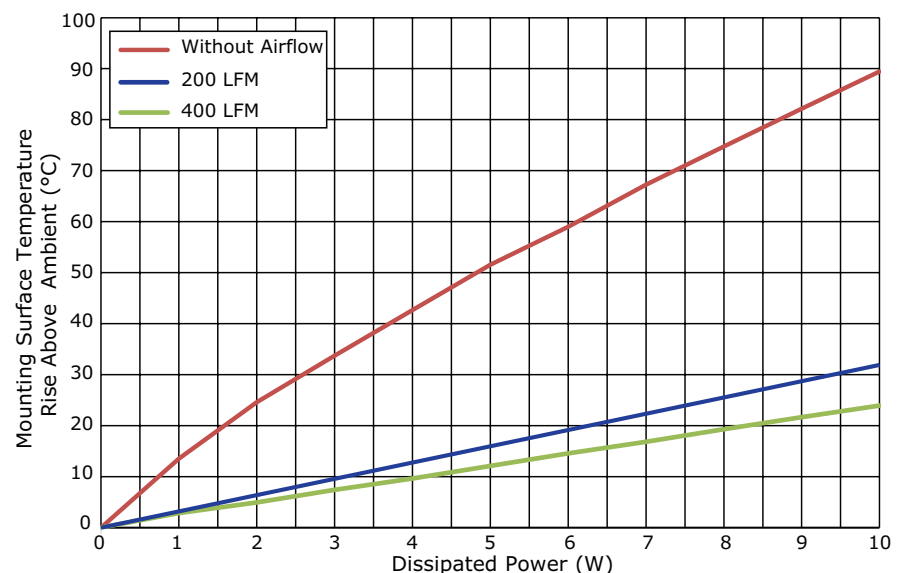
Note:

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-B18254-035H**

Heatsink Temperature Rise Above Ambient (ΔT = T _{hs} - T _a) [°C]			
Power [W]	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	13.52	3.09	2.86
2	24.58	6.19	4.94
3	33.71	9.47	7.42
4	42.65	12.64	9.60
5	51.54	15.85	12.11
6	58.98	18.94	14.54
7	67.25	22.34	16.84
8	74.76	25.54	19.31
9	82.16	28.87	21.66
10	89.43	31.89	23.95

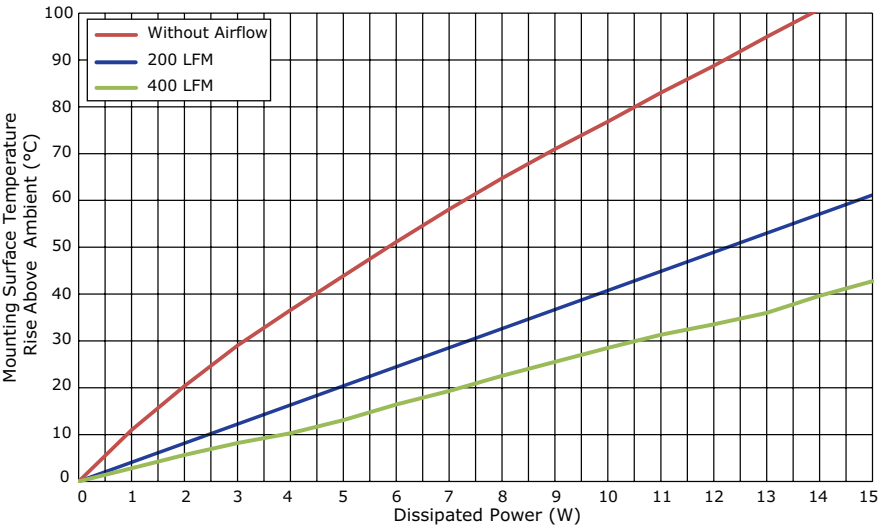
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature

PERFORMANCE CURVES (CONTINUED)

HSE-B18317-035H

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	10.96	3.63	2.80
2	20.38	7.98	5.65
3	29.02	12.37	8.21
4	36.58	16.50	10.28
5	43.86	20.35	13.11
6	51.12	24.67	16.43
7	58.09	28.82	19.32
8	64.74	33.13	22.54
9	70.97	37.07	25.55
10	76.83	41.01	28.51
11	83.01	45.19	31.32
12	88.74	49.10	33.54
13	94.93	53.11	35.98
14	100.86	57.05	39.63
15	106.26	61.16	42.76

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

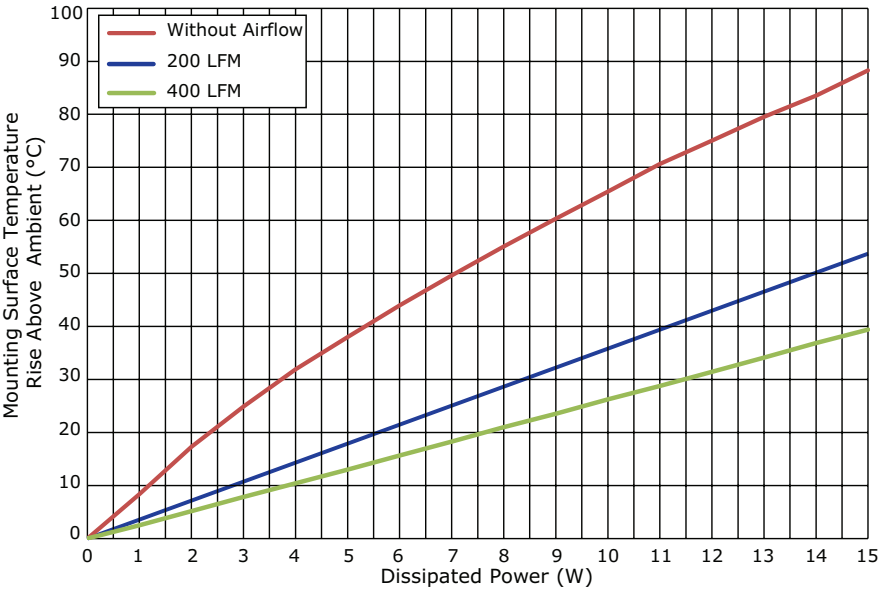


PERFORMANCE CURVES (CONTINUED)

HSE-B18381-035H

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	8.34	3.52	2.48
2	17.28	7.15	5.14
3	24.87	10.93	7.81
4	31.91	13.98	10.40
5	37.99	17.64	12.99
6	43.96	21.23	15.68
7	49.59	24.98	18.29
8	55.07	28.39	20.98
9	60.30	32.32	23.53
10	65.45	36.09	26.23
11	70.65	39.56	28.77
12	75.05	43.04	31.44
13	79.53	46.43	34.11
14	83.55	49.75	36.86
15	88.31	53.73	39.41

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

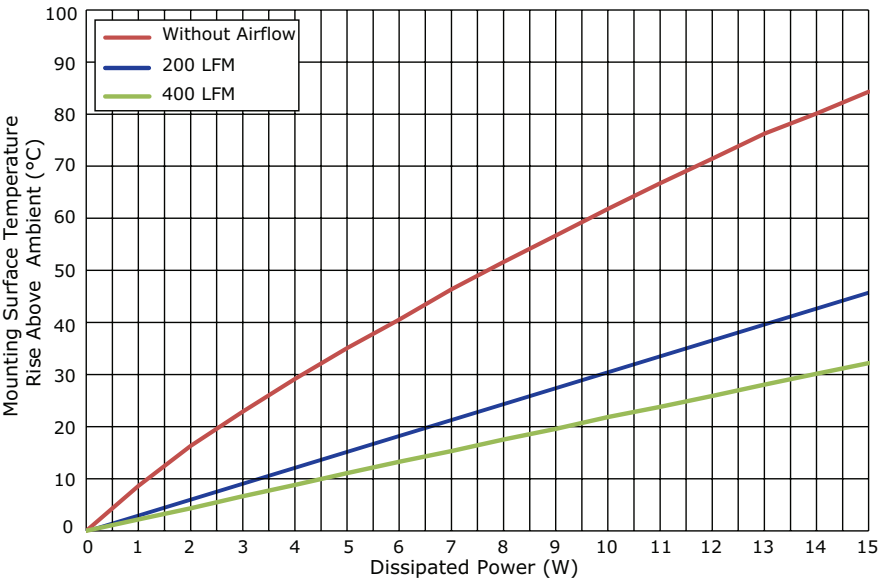


PERFORMANCE CURVES (CONTINUED)

HSE-B18508-035H

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	8.63	2.98	2.21
2	16.33	6.10	4.34
3	22.88	9.00	6.65
4	29.17	12.06	8.83
5	35.07	15.23	11.09
6	40.52	18.23	13.25
7	46.34	21.19	15.32
8	51.61	24.37	17.51
9	56.70	27.50	19.57
10	61.77	30.65	21.84
11	66.74	33.54	23.78
12	71.44	36.80	25.90
13	76.25	39.62	28.07
14	80.09	42.73	30.17
15	84.32	45.73	32.21

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

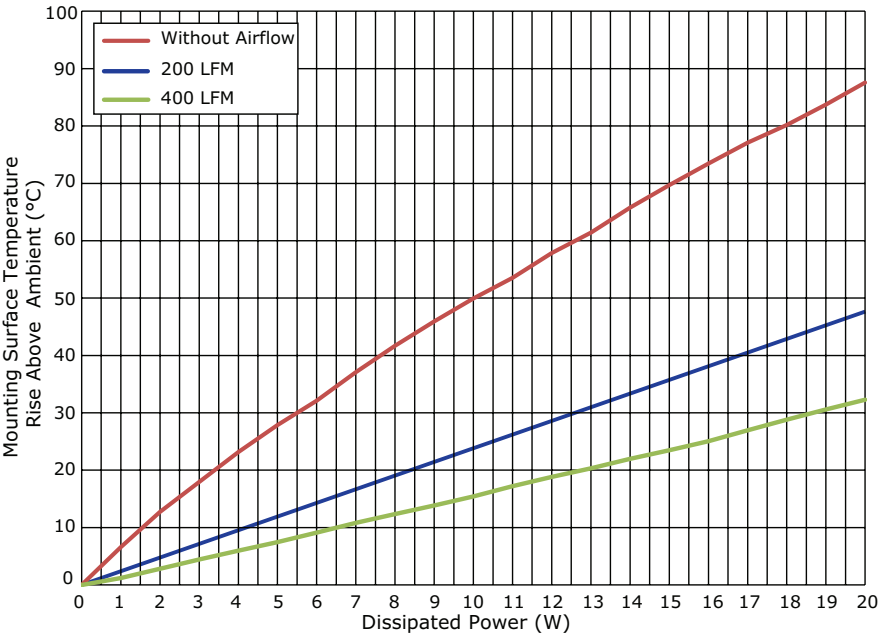


PERFORMANCE CURVES (CONTINUED)

HSE-B18635-035H

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	6.61	2.24	1.22
2	12.73	4.57	2.80
3	17.96	7.08	4.43
4	23.17	9.36	5.95
5	27.87	11.84	7.45
6	32.13	14.18	9.12
7	37.08	16.65	10.83
8	41.69	19.14	12.37
9	45.91	21.56	13.84
10	49.93	24.05	15.42
11	53.54	26.41	17.20
12	57.87	28.59	18.81
13	61.43	31.04	20.31
14	65.76	33.48	21.97
15	69.68	35.82	23.48
16	73.44	38.17	25.05
17	77.08	40.51	26.93
18	80.18	42.90	28.82
19	83.71	45.25	30.61
20	87.57	47.63	32.29

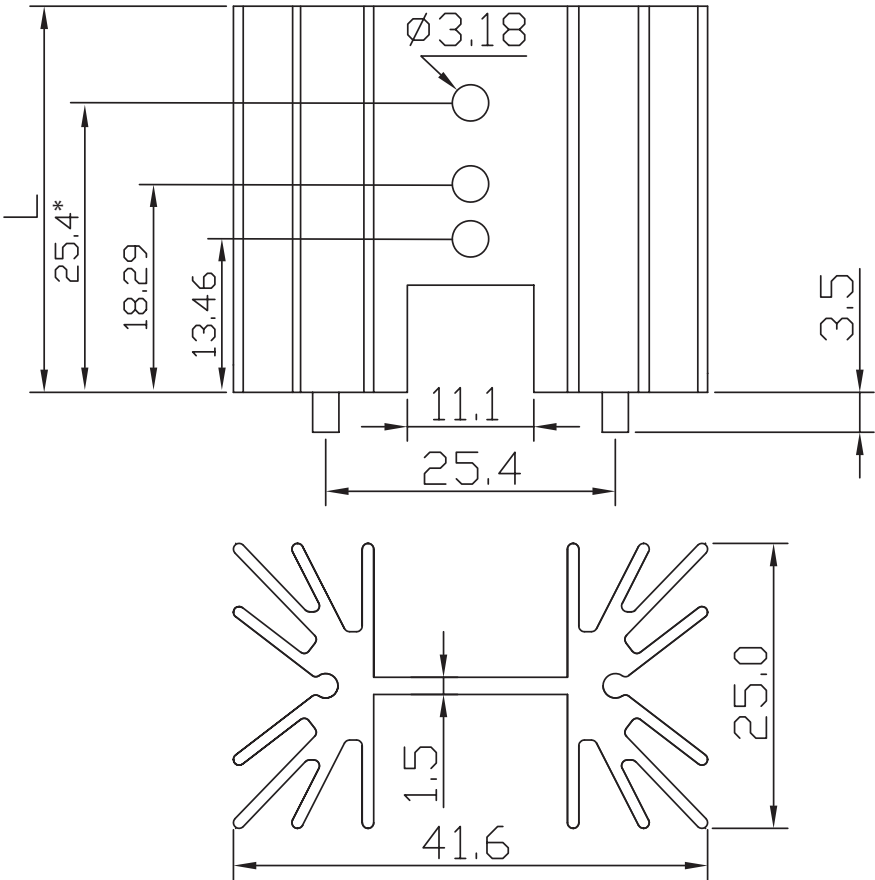
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature



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-B18254-035H*	25.4	20
HSE-B18317-035H	31.75	23
HSE-B18381-035H	38.1	28.34
HSE-B18508-035H	50.8	37.8
HSE-B18635-035H	63.5	50

Note: * Mounting hole not present on 25.4 mm length model.

REVISION HISTORY

rev.	description	date
1.0	initial release	05/11/2017
1.01	updated datasheet	09/07/2017
1.02	brand update	02/10/2020
1.03	added pin dimensions	08/17/2020
1.04	logo, datasheet style update	08/05/2022
1.05	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.

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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.

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