CUI DEVICES

SERIES: HSE-BX-035H | **DESCRIPTION:** HEAT SINK

FEATURES

- TO-218 package
- placement pins for secure PCB attachment
- clip on style for component attachment
- multiple available cut lengths



RoHS

MODEL

		thermal resistance[1]				power dissipation[1]
	length (mm)	**@ 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)	**@ 75°C ΔT, nat conv** (W)
HSE-B18254-035H-00	25.4	7.50	8.51	4.03	2.09	10.00
HSE-B18317-035H-01	31.75	7.50	10.49	4.33	2.50	10.00
HSE-B18381-035H-02	38.1	6.25	9.81	3.79	2.60	12.00
HSE-B18508-035H-03	50.8	5.77	8.94	3.44	2.09	13.00
HSE-B18635-035H-04	63.5	4.97	7.90	2.38	1.66	15.10

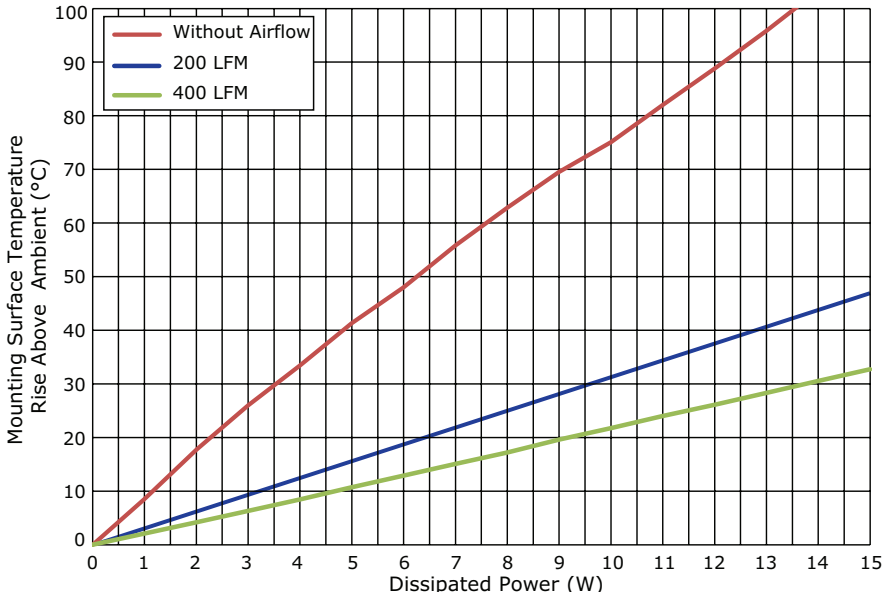
Note:
1. See performance curves for full thermal resistance details.
2. Custom cut to length options available. Thermal data not available on custom lengths.

PERFORMANCE CURVES

HSE-B18254-035H-00

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	8.51	4.03	2.09
2	17.71	8.25	4.19
3	25.98	11.41	6.31
4	33.43	14.51	8.46
5	41.33	17.65	10.72
6	48.00	20.68	12.91
7	55.82	23.05	15.08
8	62.87	26.42	17.23
9	69.51	29.15	19.61
10	75.10	32.19	21.76
11	82.03	34.47	24.00
12	88.82	37.70	26.09
13	95.84	40.70	28.34
14	103.36	43.79	30.54
15	109.24	46.92	32.70

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

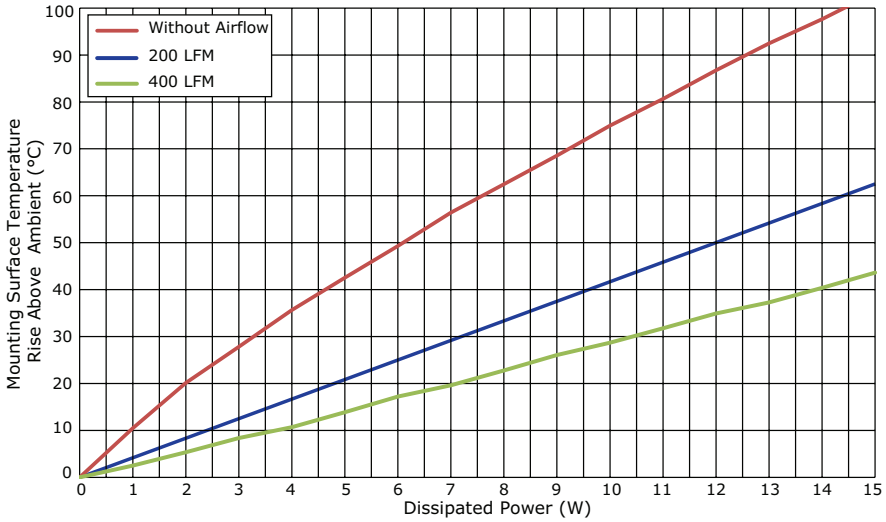


PERFORMANCE CURVES (CONTINUED)

HSE-B18317-035H-01

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	10.49	4.33	2.50
2	20.11	8.77	5.33
3	27.82	13.00	8.38
4	35.65	17.48	10.70
5	42.56	21.57	13.86
6	49.31	25.42	17.23
7	56.42	29.92	19.64
8	62.46	34.18	22.78
9	68.54	38.43	26.07
10	74.96	42.08	28.67
11	80.66	46.41	31.77
12	86.72	50.78	34.93
13	92.47	54.93	37.27
14	97.61	58.30	40.39
15	103.34	62.54	43.64

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

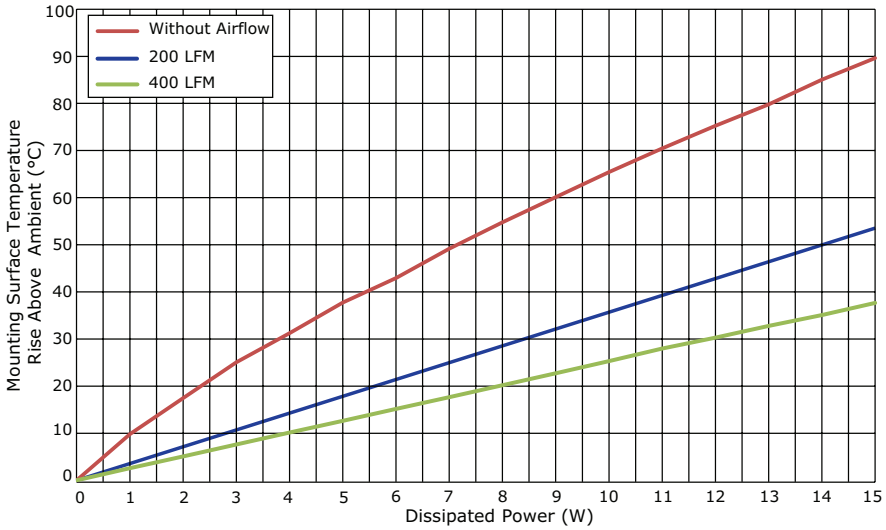


PERFORMANCE CURVES (CONTINUED)

HSE-B18381-035H-02

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	9.81	3.79	2.60
2	17.47	7.41	5.09
3	25.07	11.15	7.61
4	31.22	14.91	10.12
5	37.72	18.35	12.61
6	42.95	21.94	15.16
7	49.17	25.41	17.64
8	54.78	28.73	20.17
9	60.08	32.32	22.72
10	65.42	35.58	25.29
11	70.48	39.62	27.97
12	75.24	43.44	30.30
13	79.80	46.88	32.78
14	85.06	50.16	35.09
15	89.64	53.54	37.66

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

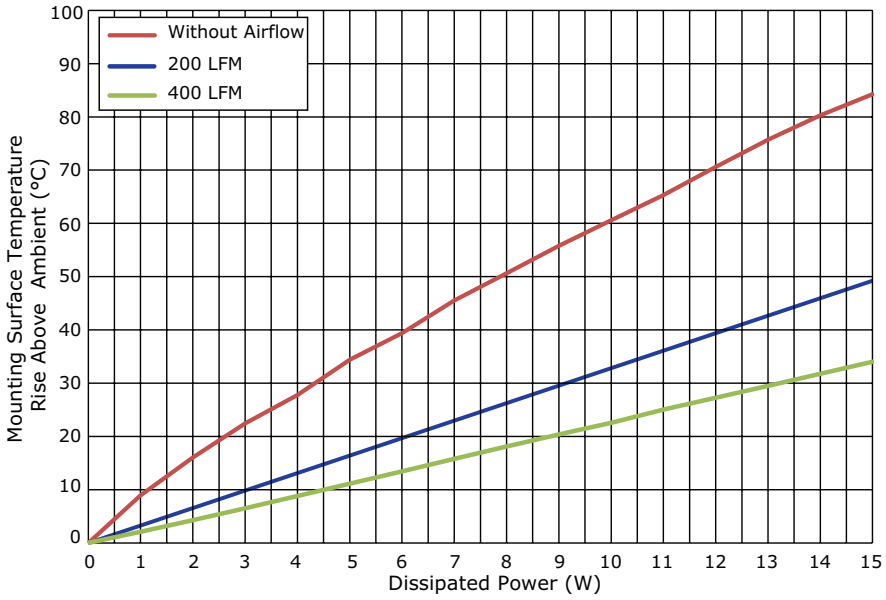


PERFORMANCE CURVES (CONTINUED)

HSE-B18508-035H-03

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	8.94	3.44	2.09
2	16.03	6.78	4.27
3	22.45	10.09	6.51
4	27.78	13.89	8.83
5	34.40	17.53	11.11
6	39.38	20.70	13.45
7	45.53	23.64	15.79
8	50.65	27.50	18.11
9	55.79	30.96	20.36
10	60.58	34.44	22.57
11	65.31	37.84	25.05
12	70.60	40.46	27.26
13	75.69	43.35	29.49
14	80.29	46.18	31.74
15	84.24	49.24	34.05

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

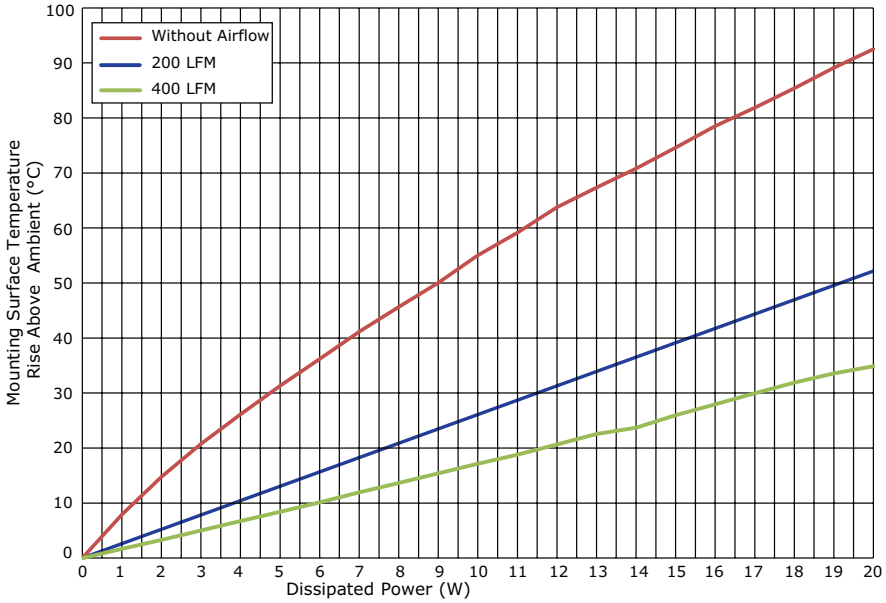


PERFORMANCE CURVES (CONTINUED)

HSE-B18635-035H-04

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	7.90	2.38	1.66
2	14.77	5.01	3.29
3	20.74	7.86	5.00
4	26.09	10.53	6.72
5	31.33	12.95	8.40
6	36.21	15.76	10.10
7	41.13	18.39	11.96
8	45.64	21.04	13.63
9	50.06	23.72	15.39
10	55.04	26.59	17.14
11	59.16	29.04	18.78
12	63.79	31.69	20.63
13	67.33	34.48	22.54
14	70.81	37.15	23.69
15	74.62	39.59	25.98
16	78.52	41.91	27.94
17	81.87	44.42	29.96
18	85.40	46.92	31.91
19	89.13	49.57	33.56
20	92.50	52.19	34.89

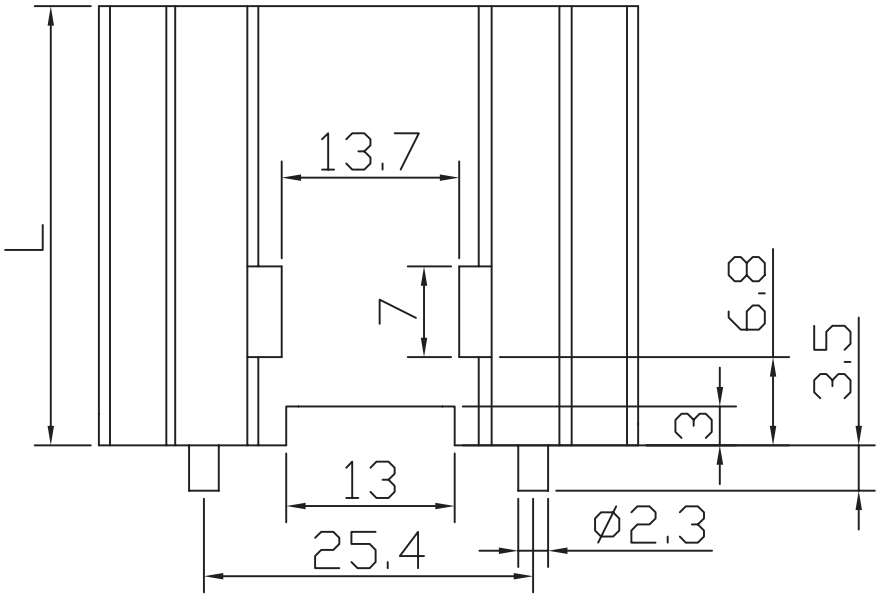
Ths: "hot spot" temperature measured on the heatsink
Ta: ambient temperature

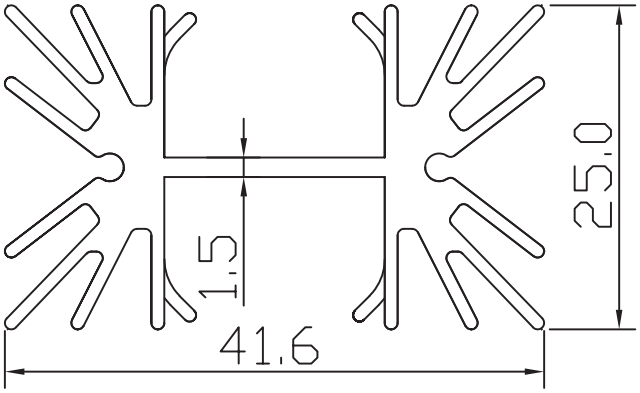


MECHANICAL DRAWING

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-B18254-035H-00	25.4	20
HSE-B18317-035H-01	31.75	23
HSE-B18381-035H-02	38.1	28.34
HSE-B18508-035H-03	50.8	37.8
HSE-B18635-035H-04	63.5	50

REVISION HISTORY

rev.	description	date
1.0	initial release	05/12/2017
1.01	brand update	02/10/2020
1.02	added pin dimensions	08/17/2020

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

CUI DEVICES

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