



SERIES: HSE-BX-02 | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- placement pins for secure PCB attachment
- round hole for component attachment
- multiple available cut lengths



MODEL

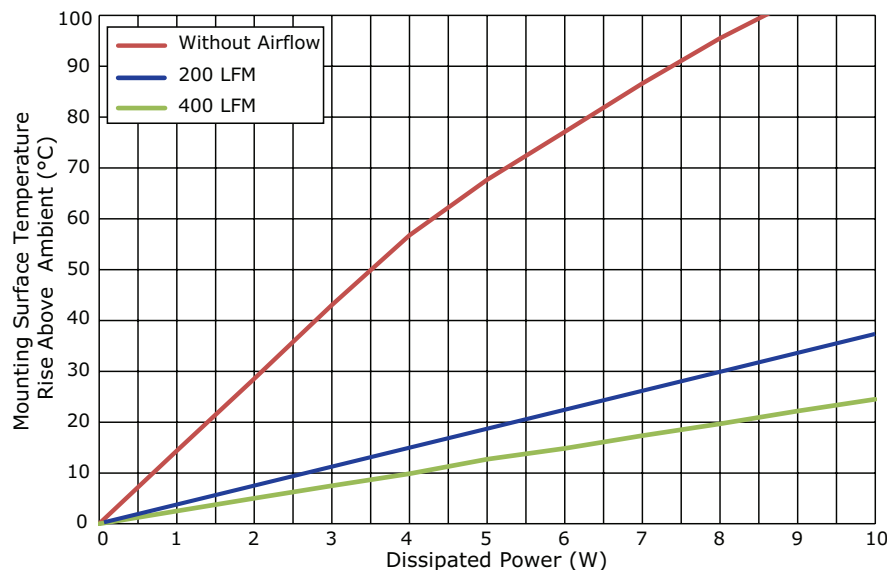
	length [mm]	thermal resistance ¹			power dissipation ¹ @ 75°C ΔT, nat conv [W]	
		@ 75°C ΔT, nat conv [°C/W]	@ 1 W, nat conv [°C/W]	@ 1 W, 200 LFM [°C/W]		@ 1 W, 400 LFM [°C/W]
HSE-B20254-035H	25.4	12.93	14.40	3.28	2.49	5.80
HSE-B20381-035H	38.1	11.54	13.64	3.66	2.76	6.50
HSE-B20508-035H	50.8	9.62	12.98	5.17	3.28	7.80
HSE-B20508-035H-W ²	50.8	9.62	12.98	5.17	3.28	7.80
HSE-B20635-035H	63.5	8.15	10.92	4.35	2.86	9.20
HSE-B20635-035H-W ²	63.5	8.15	10.92	4.35	2.86	9.20

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

PERFORMANCE CURVES

HSE-B20254-035H

Power [W]	Heatsink Temperature Rise Above Ambient (ΔT = T _{hs} - T _a) [°C]		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	14.40	3.28	2.49
2	28.52	6.90	5.02
3	43.03	10.51	7.48
4	56.78	13.98	9.87
5	67.70	17.81	12.71
6	77.09	21.84	14.82
7	86.63	25.55	17.33
8	95.53	29.43	19.68
9	103.32	33.25	22.19
10	112.39	37.35	24.51



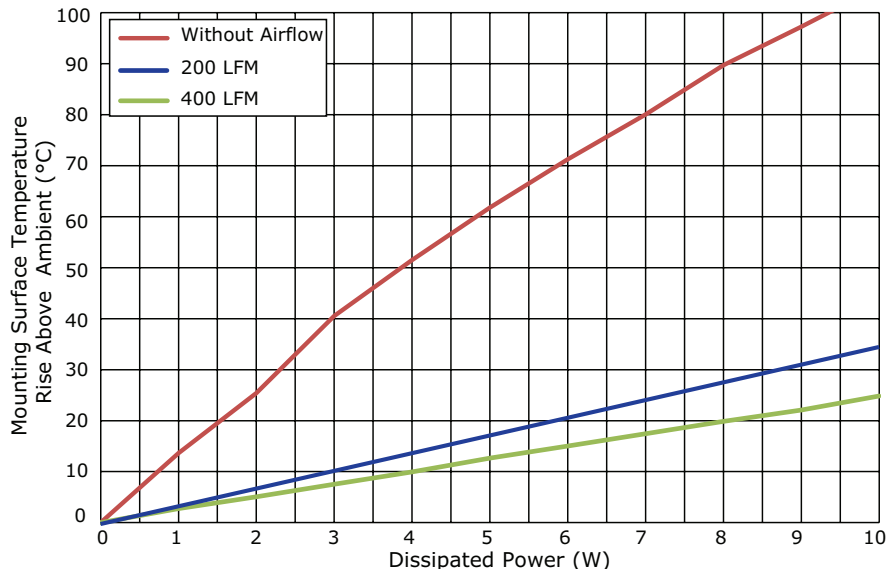
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature

PERFORMANCE CURVES (CONTINUED)

HSE-B20381-035H

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	13.64	3.66	2.76
2	25.38	6.96	5.06
3	40.52	10.35	7.51
4	51.51	13.65	9.97
5	61.79	17.05	12.65
6	71.27	20.69	15.04
7	80.06	24.37	17.45
8	89.74	27.82	19.84
9	97.27	30.95	22.10
10	105.15	34.45	24.85

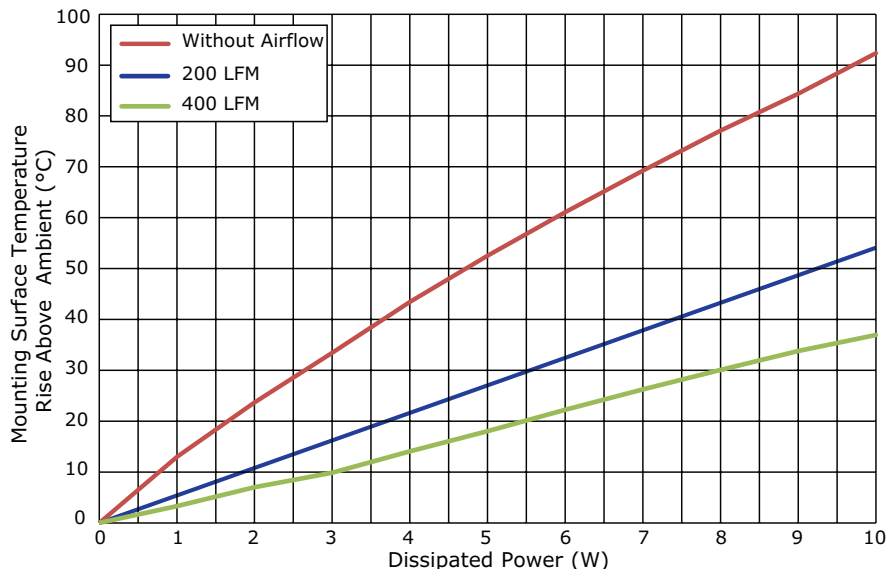
T_{hs}: "hot spot" temperature measured on the heatsink
 T_a: ambient temperature



HSE-B20508-035H(-W)

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	12.98	5.17	3.28
2	23.69	10.43	7.01
3	33.43	16.23	9.87
4	43.43	22.15	14.05
5	52.51	27.62	18.06
6	61.06	33.03	22.24
7	69.25	38.72	26.25
8	77.11	43.92	30.07
9	84.38	49.28	33.81
10	92.34	54.09	36.92

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

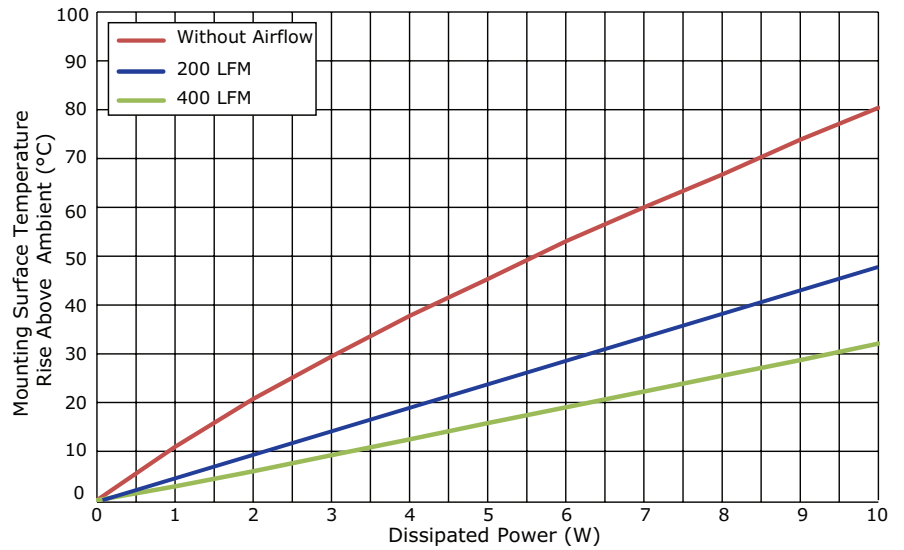


PERFORMANCE CURVES (CONTINUED)

HSE-20635-035H(-W)

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	10.92	4.35	2.86
2	20.75	9.46	5.94
3	29.43	14.60	9.20
4	37.74	19.72	12.44
5	45.32	24.84	15.80
6	53.03	29.05	19.04
7	59.98	33.85	22.26
8	66.72	38.44	25.51
9	73.88	43.38	28.69
10	80.40	47.80	32.10

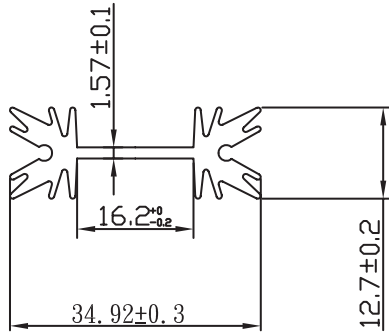
T_{hs} : "hot spot" temperature measured on the heatsink
 T_a : ambient temperature



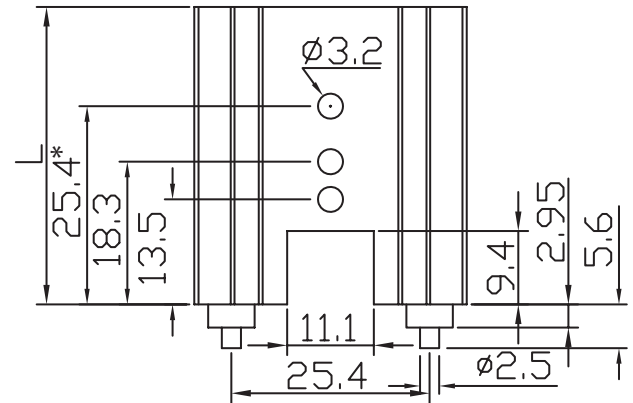
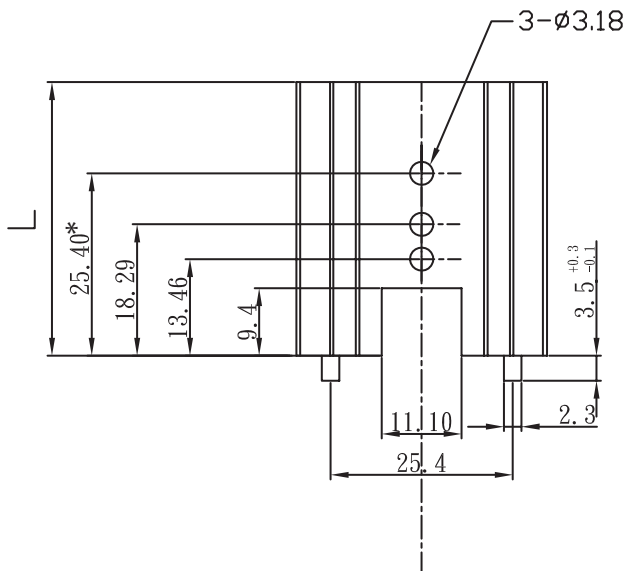
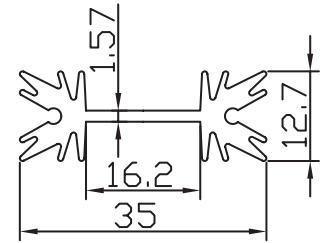
MECHANICAL DRAWING

units: mm
tolerance: ±0.5 mm

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



-W Models



MODEL NO.	LENGTH, L [mm]	WEIGHT [g]
HSE-B20254-035H*	25.4	11.33
HSE-B20381-035H	38.1	16.67
HSE-B20508-035H	50.8	22.22
HSE-B20508-035H-W	50.8	22.22
HSE-B20635-035H	63.5	27.5
HSE-B20635-035H-W	63.5	27.5

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

REVISION HISTORY

rev.	description	date
1.0	initial release	05/09/2017
1.01	updated datasheet	09/11/2017
1.02	brand update	02/10/2020
1.03	logo, datasheet style update	08/05/2022

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



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

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

CUI Devices 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.

cuidevices.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Heat Sinks](#) category:

Click to view products by [CUI Devices](#) manufacturer:

Other Similar products are found below :

[657-20ABPNE](#) [73452PPBA](#) [A22-4026](#) [120-1873-007](#) [218-40CTE3](#) [231-69PAB-15V](#) [231-75PAB-13V](#) [231-75PAB-15V](#) [253-122ABE-22](#)
[PSC22CB](#) [295-2](#) [CLP212SG](#) [D10100-28](#) [BDN183CBA01](#) [3-21053-4](#) [TX0506-1B](#) [LAE66A3CB](#) [511-3U](#) [73381PPBA](#) [73403PPBA](#) [8191-](#)
[E40](#) [510-12M](#) [529802B00000](#) [D10650-40T5](#) [6225B-MT6G](#) [ATS-54310K-C2-R0](#) [648-51AB](#) [657-20ABPESC](#) [679-25AG](#) [FK 212 CB SA](#)
[FK225 SA L1](#) [241404B91203G](#) [6801G](#) [680-5K](#) [7106DG/TR](#) [SK145 37 5STSTO220](#) [7109DG/TR](#) [TS-11042-CY](#) [S14K35G3S5](#) [8924G](#)
[7717-133DAP](#) [7717-26DAP](#) [4509](#) [SW25-4G](#) [CLP-215](#) [CLP-207](#) [D20850-40-T2](#) [APF30-30-10CB/A01](#) [V8508E](#) [268-85CTE](#)