

**SERIES:** HSE-BX-01 | **DESCRIPTION:** HEAT SINK

**FEATURES**

- TO-220 package
- round or slot hole option
- low profile



**MODEL**

	mounting hole		thermal resistance <sup>1</sup>				power dissipation <sup>1</sup>
	type	size [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-B2111-038	round	Ø3.8	19.74	20.99	6.12	5.18	3.80
HSE-B1711-032	round	Ø3.2	20.27	22.39	6.84	5.05	3.70
HSE-B1711-057	slot	3.2 x 5.7	24.19	24.30	7.07	5.79	3.10

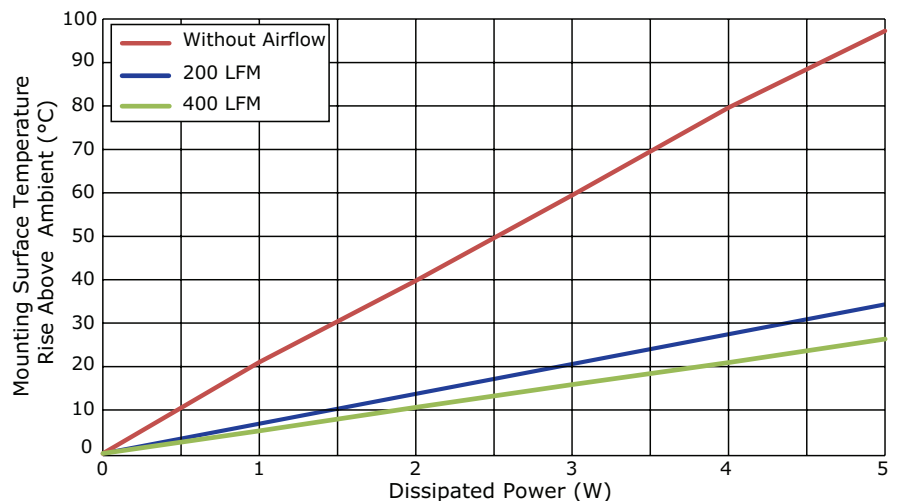
Note: 1. See performance curves for full thermal resistance details.

**PERFORMANCE CURVES**

**HSE-B2111-038**

Power [W]	Heatsink Temperature Rise Above Ambient [ΔT = T <sub>hs</sub> - T <sub>a</sub> ] [°C]		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	20.99	6.12	5.18
2	39.76	13.23	10.62
3	59.46	19.90	15.87
4	79.61	26.92	20.94
5	97.29	34.35	26.37

T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature

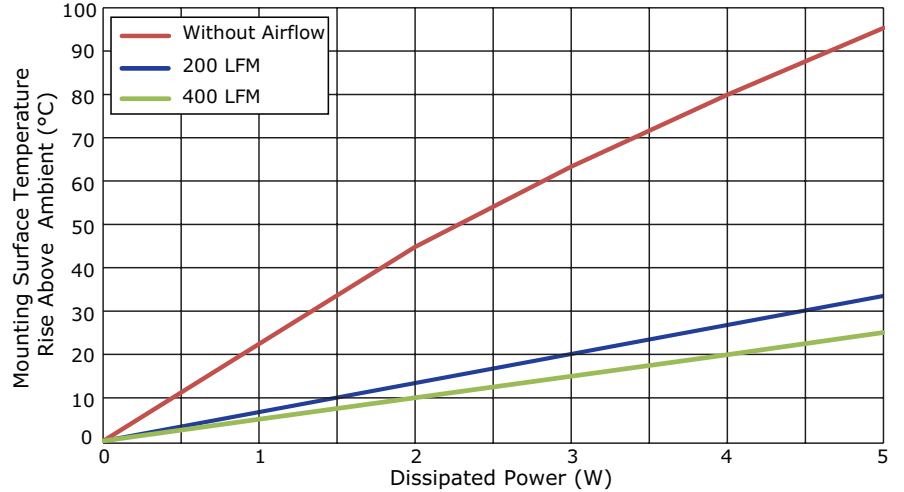


## PERFORMANCE CURVES (CONTINUED)

### HSE-B1711-032

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	22.39	6.84	5.05
2	44.78	13.44	9.99
3	63.30	20.16	14.97
4	79.94	26.86	19.95
5	95.30	33.50	25.04

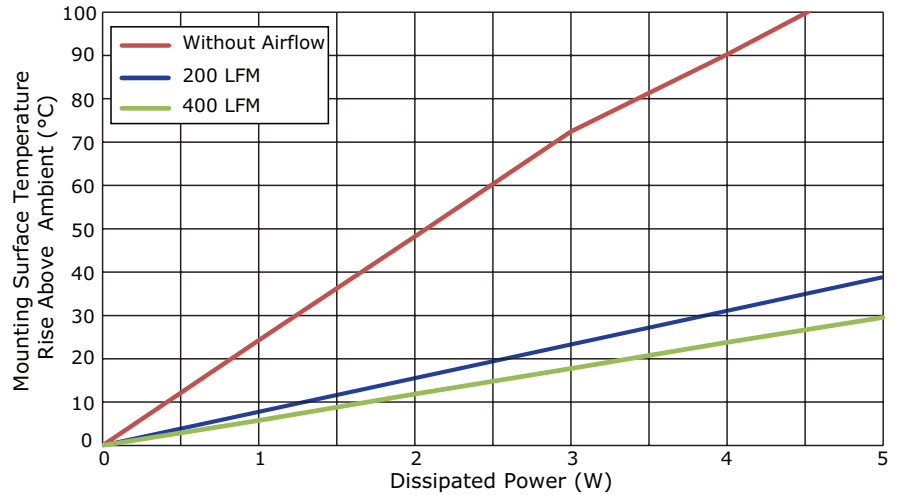
$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature



### HSE-B1711-057

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	24.30	7.07	5.79
2	48.19	15.28	11.89
3	72.44	22.86	17.72
4	90.24	30.47	23.81
5	109.19	38.84	29.57

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

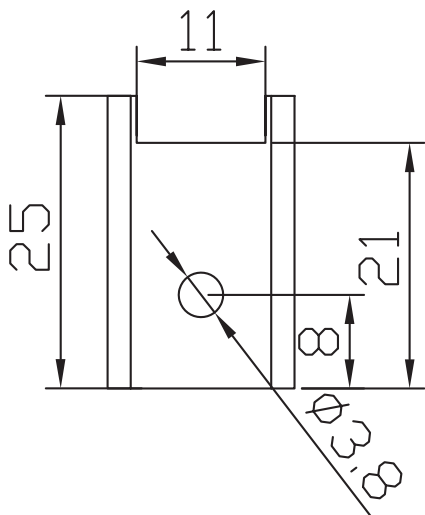


## MECHANICAL DRAWING

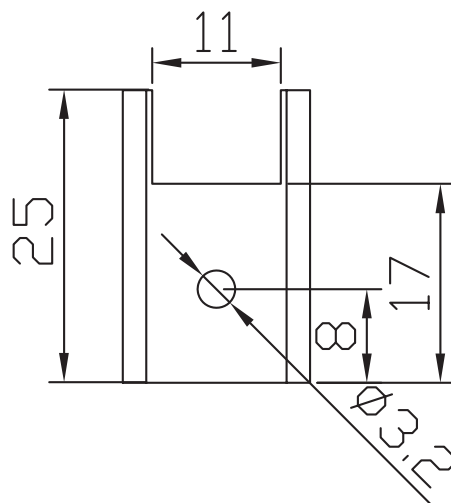
units: mm  
tolerance: ±0.5 mm

MATERIAL	AL 6063-T5
FINISH	black anodized
WEIGHT	4.4 g

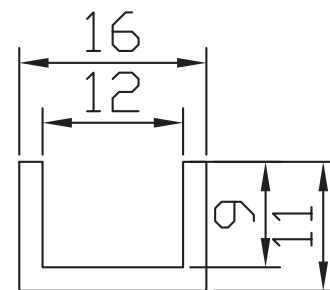
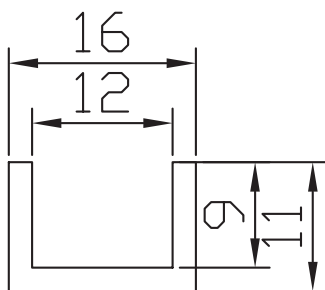
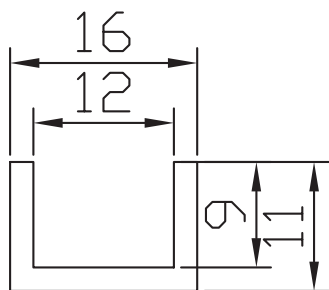
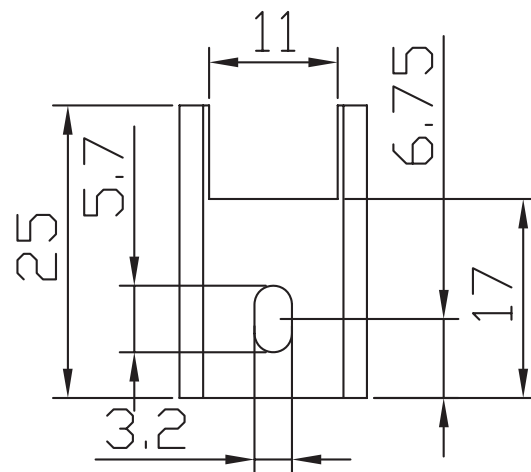
HSE-B2111-038



HSE-B1711-032



HSE-B1711-057



## REVISION HISTORY

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

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



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