

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

FEATURES

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



MODEL

| | mounting hole | | thermal resistance ¹ | | | | power dissipation ¹ |
|---------------|---------------|--------------|---------------------------------|------------------------|-----------------------|-----------------------|--------------------------------|
| | 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 |

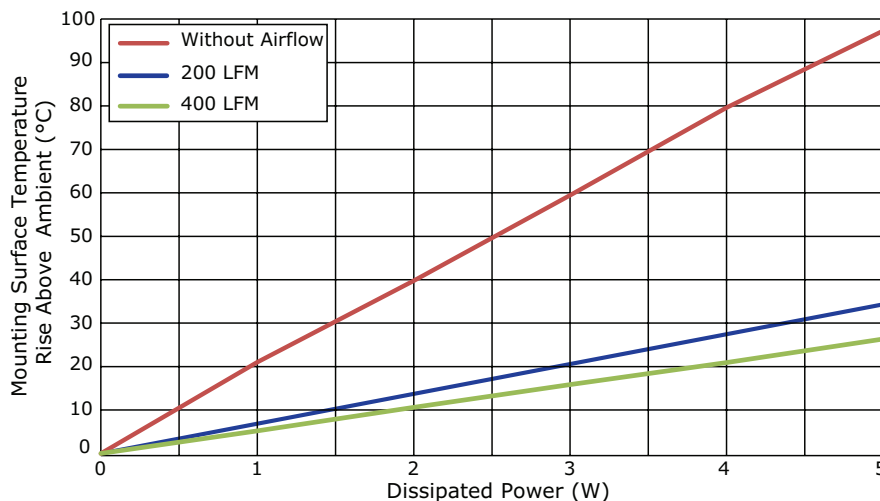
Note: 1. See performance curves for full thermal resistance details.

PERFORMANCE CURVES

HSE-B2111-038

| Power [W] | Heatsink Temperature Rise Above Ambient [ΔT = T _{hs} - T _a] [°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_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature

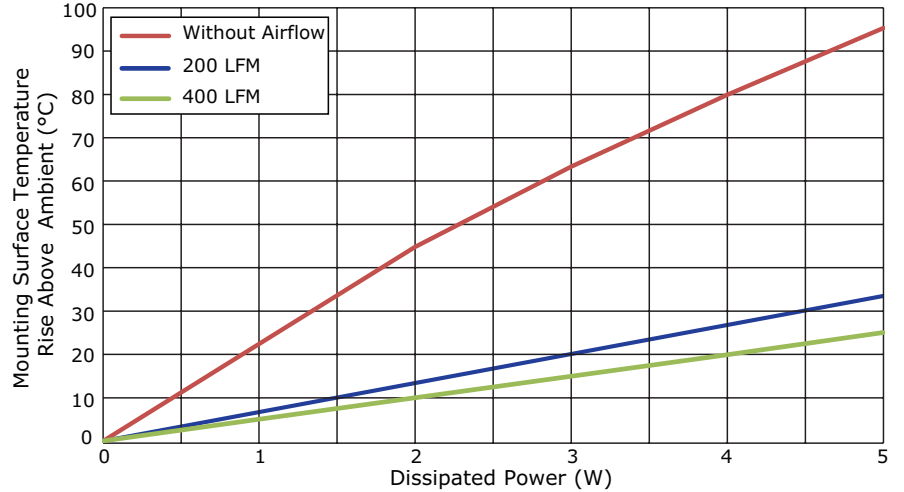


PERFORMANCE CURVES (CONTINUED)

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 |

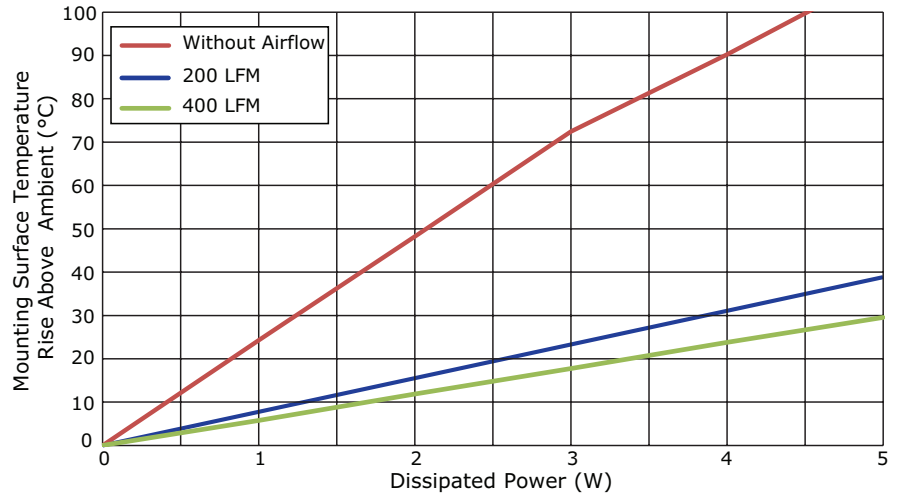
T_{hs}: "hot spot" temperature measured on the heatsink
 T_a: ambient temperature



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

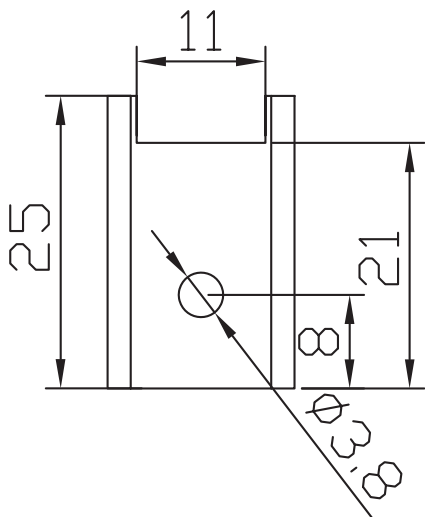


MECHANICAL DRAWING

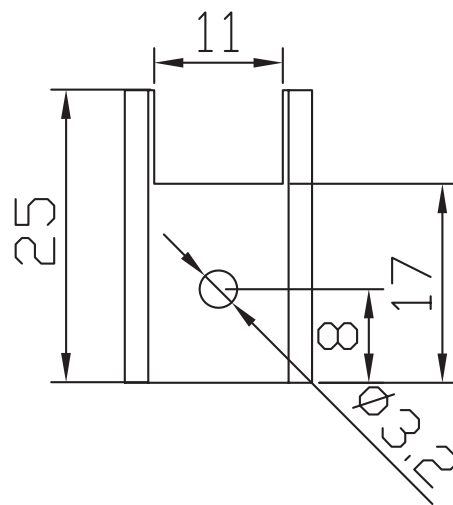
units: mm
tolerance: ±0.5 mm

| | |
|----------|----------------|
| MATERIAL | AL 6063-T5 |
| FINISH | black anodized |
| WEIGHT | 4.4 g |

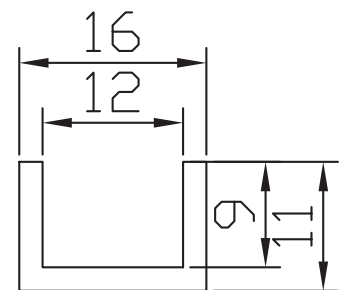
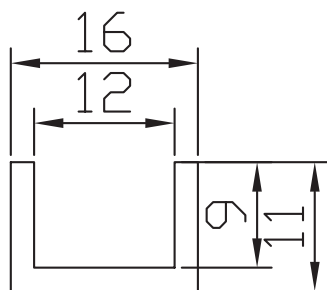
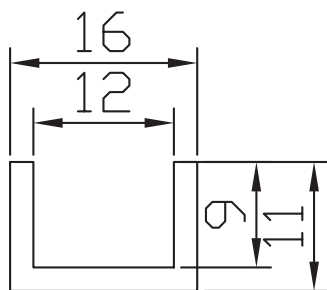
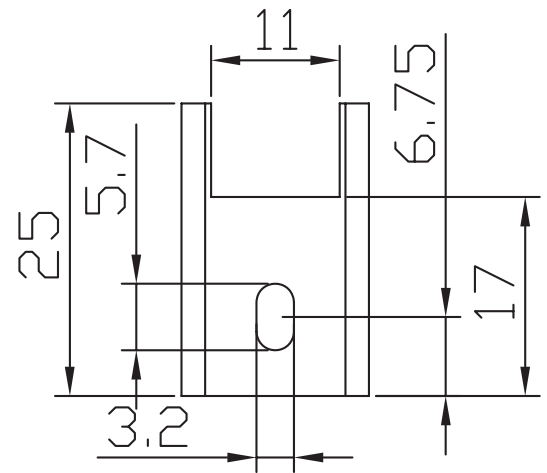
HSE-B2111-038



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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