CUI DEVICES

date 02/11/2020

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SERIES: HSE-BX-056H | DESCRIPTION: HEAT SINK

FEATURES

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





| MODEL | thermal resistance ¹ | | | | power dissipation ¹ | |
|-----------------|---------------------------------|------------------------|--------------------|-------------------|-----------------------------------|------------------------|
| | length | @ 75°C ∆T, nat conv | @ 1 W, nat conv | @ 1 W, 200 LFM | @ 1 W, 400 LFM | @ 75°C ∆T, nat conv |
| | (mm) | (°C/W) | (°C/W) | (°C/W) | (°C/W) | (W) |
| HSE-B20254-056H | 25.4 | 13.64 | 17.13 | 8.36 | 6.41 | 5.50 |
| HSE-B20381-056H | 38.1 | 11.19 | 15.00 | 3.53 | 2.56 | 6.70 |

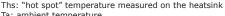
Note:

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

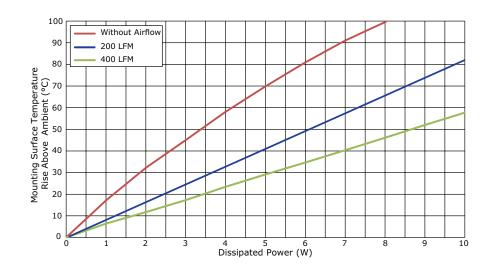
PERFORMANCE CURVES

HSE-B20254-056H

| | Heatsink Temperature Rise Above Ambient ($\Delta T = Ths - Ta$) (°C) | | | |
|--|--|---------|---------|--|
| Power (W) | Natural Conv. | 200 LFM | 400 LFM | |
| 0 | 0 | 0 | 0 | |
| 1 | 17.13 | 8.36 | 6.41 | |
| 2 | 32.20 | 17.46 | 11.75 | |
| 3 | 45.00 | 24.87 | 17.28 | |
| 4 | 58.12 | 32.88 | 23.43 | |
| 5 | 69.84 | 40.99 | 29.16 | |
| 6 | 80.93 | 48.89 | 34.64 | |
| 7 | 91.01 | 56.79 | 40.37 | |
| 8 | 99.56 | 65.43 | 46.09 | |
| 9 | 110.81 | 72.66 | 52.01 | |
| 10 | 118.44 | 82.03 | 57.73 | |
| The: "hot enot" temperature measured on the heatsink | | | | |



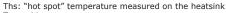
Ta: ambient temperature



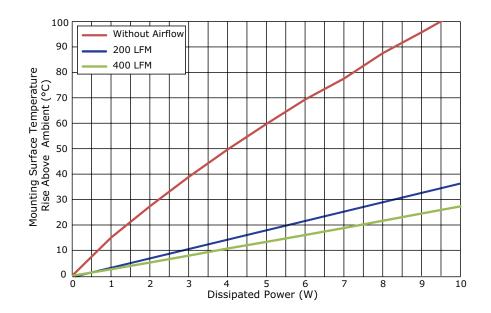
PERFORMANCE CURVES (CONTINUED)

HSE-B20381-056H

| | Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C) | | | |
|--------------|---|---------|---------|--|
| Power (W) | Natural Conv. | 200 LFM | 400 LFM | |
| 0 | 0 | 0 | 0 | |
| 1 | 15.00 | 3.53 | 2.56 | |
| 2 | 27.32 | 7.15 | 5.23 | |
| 3 | 38.89 | 10.82 | 7.90 | |
| 4 | 49.63 | 14.38 | 10.72 | |
| 5 | 59.72 | 17.90 | 13.32 | |
| 6 | 69.31 | 21.80 | 16.03 | |
| 7 | 77.53 | 25.42 | 18.80 | |
| 8 | 87.53 | 28.89 | 21.65 | |
| 9 | 95.75 | 32.68 | 24.48 | |
| 10 | 104.38 | 36.30 | 27.29 | |



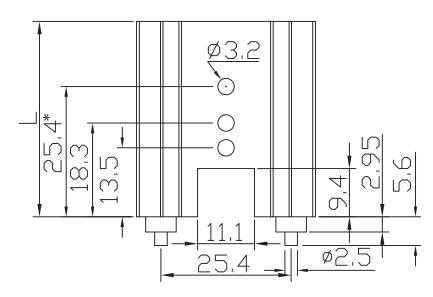
Ta: ambient temperature

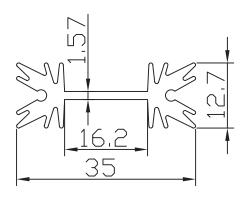


MECHANICAL DRAWING

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-B20254-056H* | 25.4 | 11.33 |
| HSE-B20381-056H | 38.1 | 16.67 |

REVISION HISTORY

| rev. | description | date |
|------|-------------------|------------|
| 1.0 | initial release | 05/05/2017 |
| 1.01 | updated datasheet | 09/07/2017 |
| 1.02 | brand update | 02/11/2020 |

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

CUI DEVICES

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