CUI DEVICES

SERIES: HSE-BX-040H | DESCRIPTION: HEAT SINK

FEATURES

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



RoHS

MODEL

	length	thermal resistance[1] @ 75°C ΔT, nat conv	thermal resistance[1] @ 1 W, nat conv	thermal resistance[1] @ 1 W, 200 LFM	thermal resistance[1] @ 1 W, 400 LFM	power dissipation[1] @ 75°C ΔT, nat conv
	(mm)	(°C/W)	(°C/W)	(°C/W)	(°C/W)	(W)
HSE-B20254-040H	25.4	13.16	16.13	7.74	5.77	5.70
HSE-B20381-040H	38.1	11.54	12.28	3.62	2.88	6.50

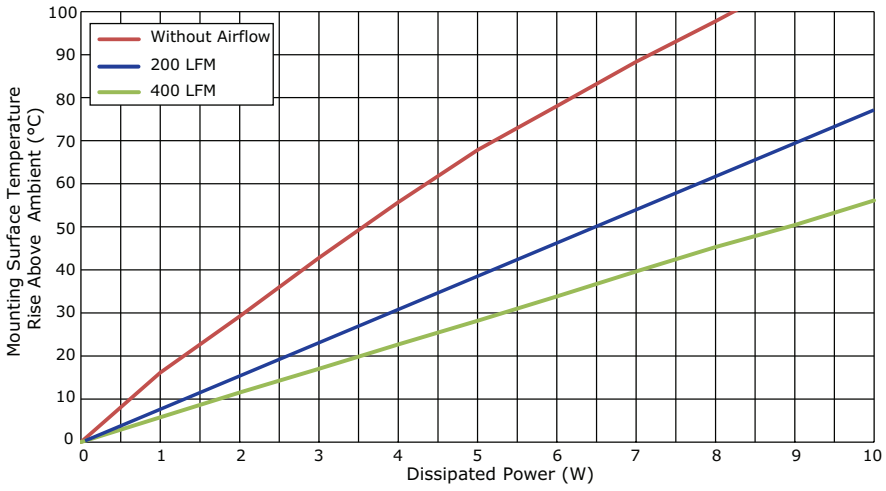
Note: 1. See performance curves for full thermal resistance details.
2. Custom cut to length options available. Thermal data not available on custom lengths.

PERFORMANCE CURVES

HSE-B20254-040H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	16.13	7.74	5.77
2	29.25	15.62	11.53
3	42.80	23.81	17.04
4	55.72	31.68	22.66
5	67.84	39.53	28.21
6	78.06	47.35	33.83
7	88.34	54.42	39.65
8	97.77	62.21	45.28
9	107.55	69.81	50.42
10	117.33	77.16	56.11

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

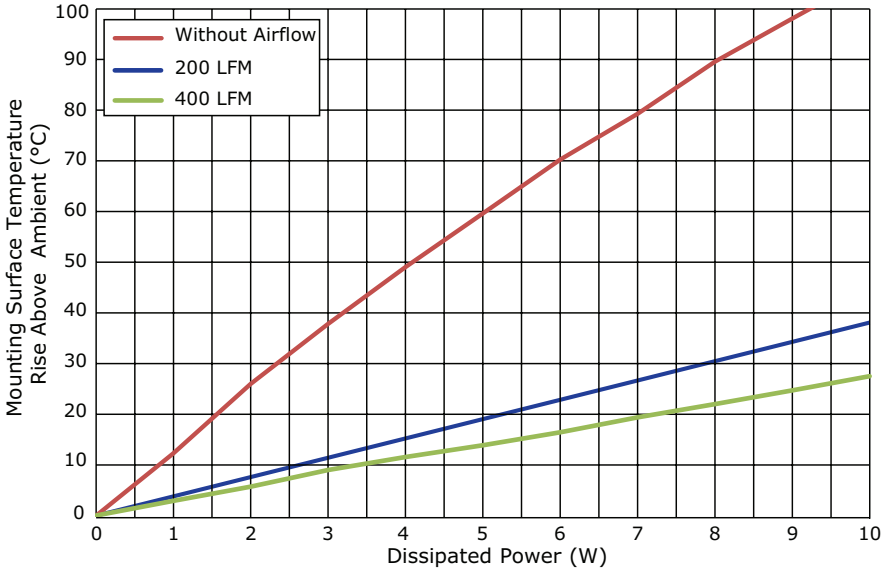


PERFORMANCE CURVES (CONTINUED)

HSE-B20381-040H

	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
Power (W)	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	12.28	3.62	2.88
2	25.96	7.21	5.70
3	37.80	11.15	8.98
4	49.04	14.86	11.55
5	59.64	18.82	13.90
6	70.27	22.54	16.43
7	79.30	26.31	19.41
8	89.57	30.28	21.97
9	98.10	34.00	24.72
10	106.51	38.10	27.50

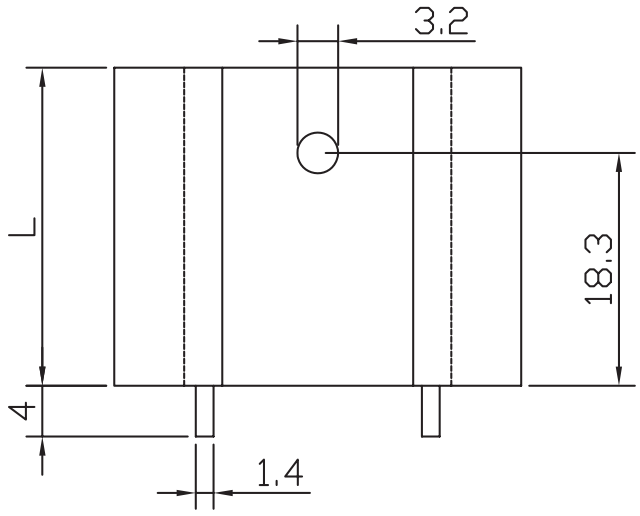
Ths: "hot spot" temperature measured on the heatsink
Ta: ambient temperature

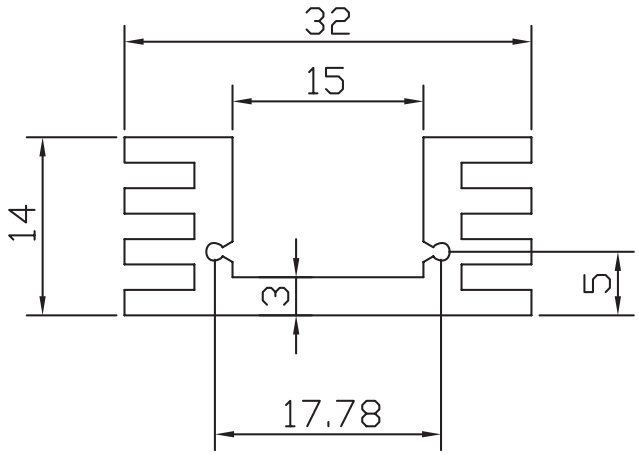


MECHANICAL DRAWING

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-B20254-040H	25.4	15.5
HSE-B20381-040H	38.1	23.19

REVISION HISTORY

rev.	description	date
1.0	initial release	05/04/2017
1.01	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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