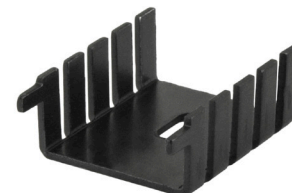


**SERIES:** HSS-B20-NPX-02 | **DESCRIPTION:** HEAT SINK

**FEATURES**

- TO-220 package
- round or slot hole attachment options
- black anodized finish
- aluminum



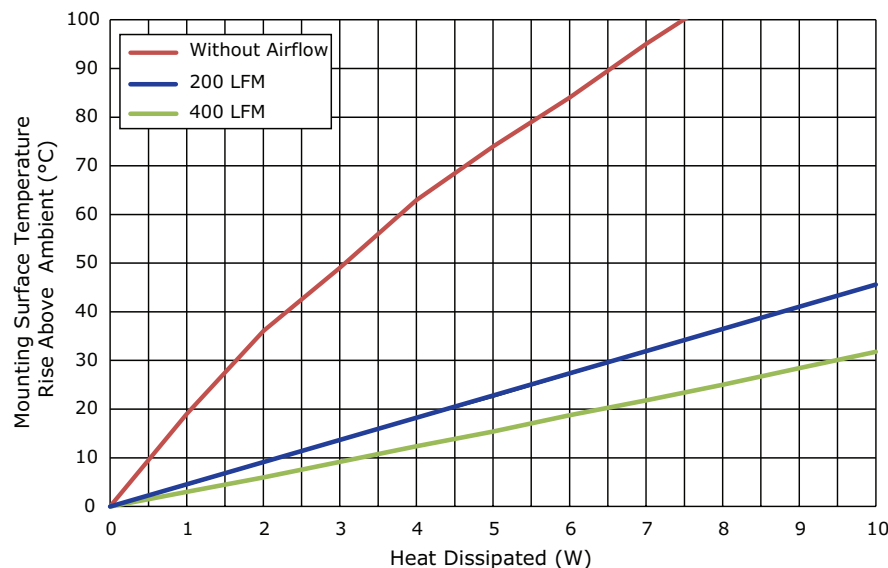
**MODEL**

	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]
HSS-B20-NPR-02	round	∅3.81	14.71	18.99	4.20	3.00	5.10
HSS-B20-NPS-02	slot	3.9 x 9.52	14.71	18.99	4.20	3.00	5.10

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

**PERFORMANCE CURVES**

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	18.99	4.20	3.00
2	36.06	8.84	5.97
3	49.01	13.51	9.16
4	62.95	17.94	12.37
5	73.94	22.27	15.40
6	84.05	26.97	18.76
7	95.04	31.60	21.79
8	105.21	36.59	25.01
9	113.51	40.90	28.42
10	116.17	45.59	31.75



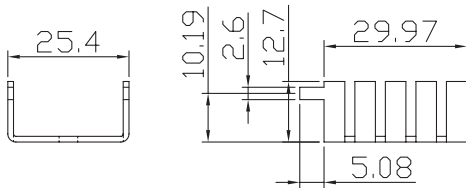
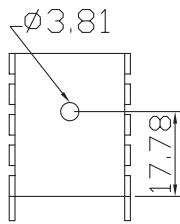
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature

## MECHANICAL DRAWING

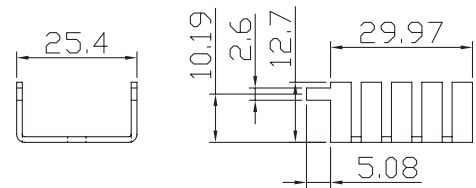
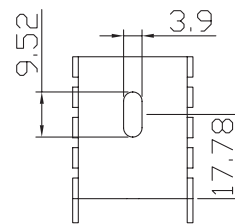
units: mm  
tolerance: ±0.5 mm

MATERIAL	AL1050
FINISH	black anodized
THICKNESS	1.2 mm
WEIGHT	HSS-B20-NPR-02: 4.3 g HSS-B20-NPS-02: 4.3 g

**HSS-B20-NPR-02**



**HSS-B20-NPS-02**



## REVISION HISTORY

rev.	description	date
1.0	initial release	03/30/2017
1.01	brand update	02/13/2020
1.02	logo, datasheet style update	08/05/2022

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



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

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