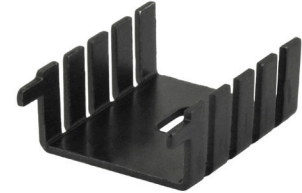


**SERIES:** HSS-B20-NPX-02 | **DESCRIPTION:** HEAT SINK

**FEATURES**

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



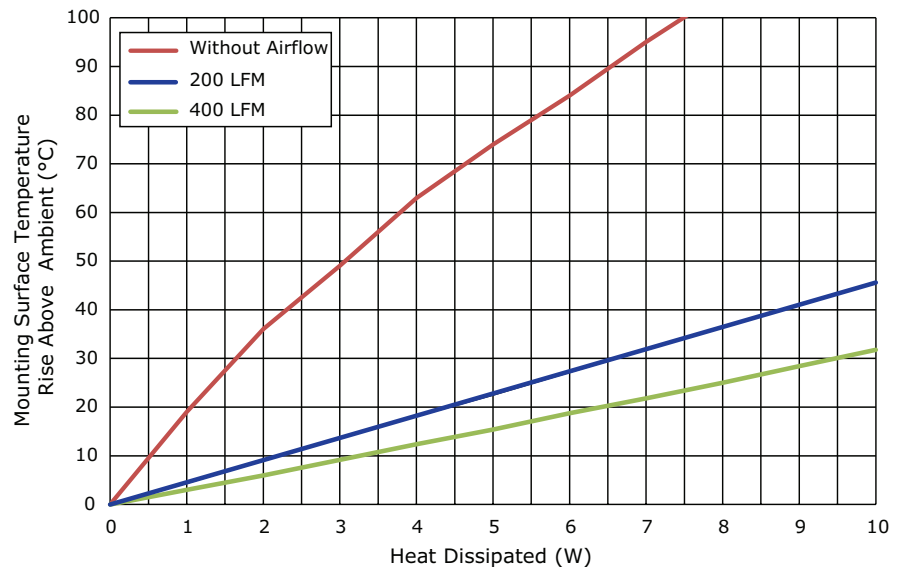
**MODEL**

	mounting hole		thermal resistance <sup>1</sup>				power dissipation <sup>1</sup> @ 75°C ΔT, nat conv (W)
	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)	
HSS-B20-NPR-02	round	Ø3.81	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



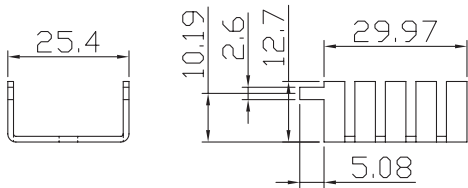
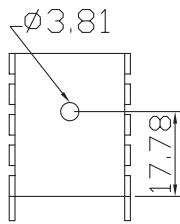
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
 T<sub>a</sub>: ambient temperature

## MECHANICAL DRAWING

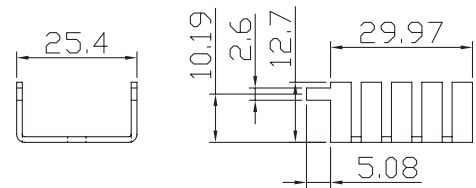
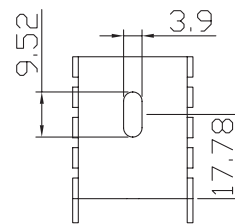
units: mm  
tolerance: ±0.5 mm

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

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rev.	description	date
1.0	initial release	03/30/2017

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



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

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CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.