

SERIES: HSS-B20-0635 | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- solder pin for secure PCB mounting
- round hole for component attachment
- black anodized finish



MODEL

	fin height [mm]	thermal resistance ¹				power dissipation ¹ @ 75°C ΔT, nat conv [W]
		@ 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-B20-0635H	6.35	28.85	35.46	10.68	7.88	2.60
HSS-B20-0635H-01	9.53	27.78	33.93	9.51	6.84	2.70
HSS-B20-0635H-02	12.70	29.09	33.89	10.49	6.81	2.58

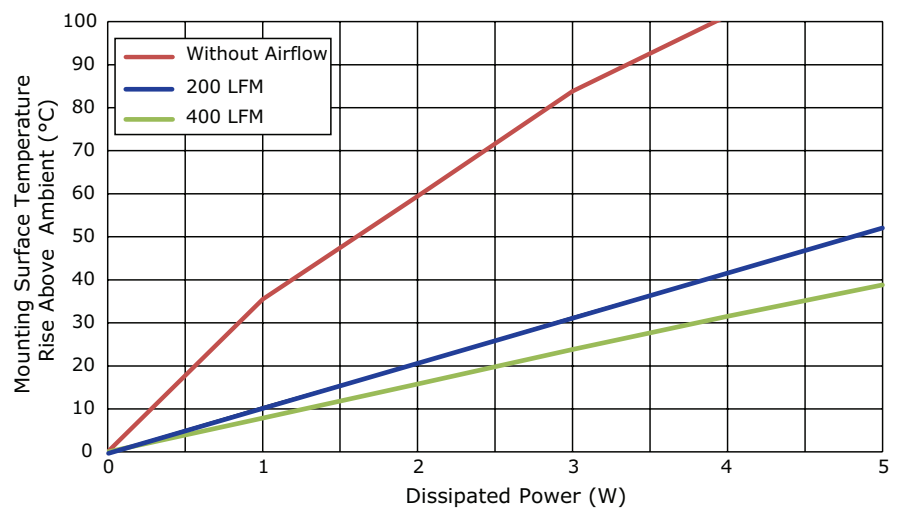
Note: 1. See performance curves for full thermal resistance details.

PERFORMANCE CURVES

HSS-B20-0635H

Power [W]	Heatsink Temperature Rise Above Ambient [ΔT = T _{hs} - T _a] [°C]		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	35.46	10.68	7.88
2	59.42	20.81	15.77
3	83.82	31.59	23.83
4	101.40	41.80	31.52
5	122.52	52.02	38.83

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

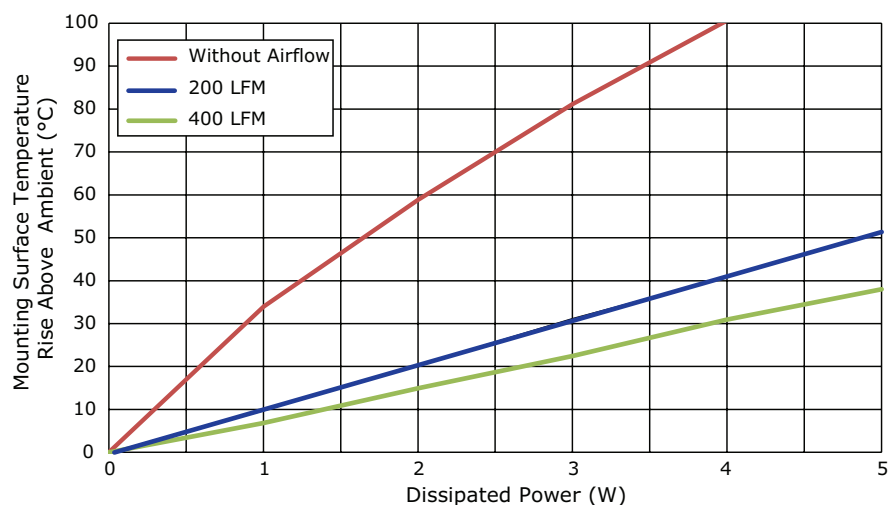


PERFORMANCE CURVES (CONTINUED)

HSS-B20-0635H-01

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	33.93	9.51	6.84
2	58.86	20.45	14.91
3	81.12	31.36	22.45
4	100.66	40.98	30.96
5	121.15	51.38	38.04

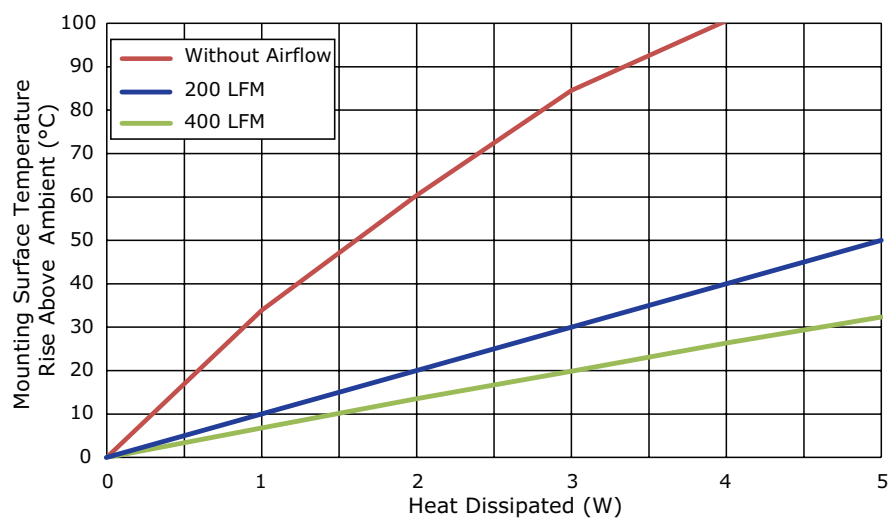
T_{hs} : "hot spot" temperature measured on the heatsink
 T_a : ambient temperature



HSS-B20-0635H-02

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	33.89	10.49	6.81
2	60.40	20.20	13.50
3	84.56	30.26	19.87
4	100.59	40.17	26.37
5	112.14	49.67	32.37

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

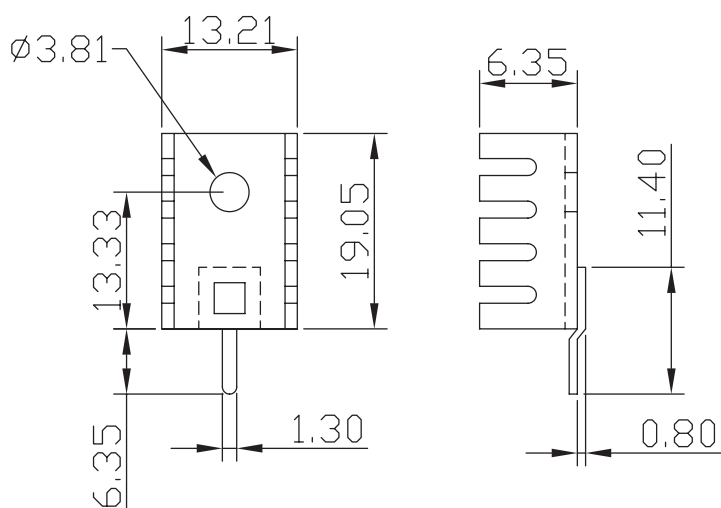


MECHANICAL DRAWING

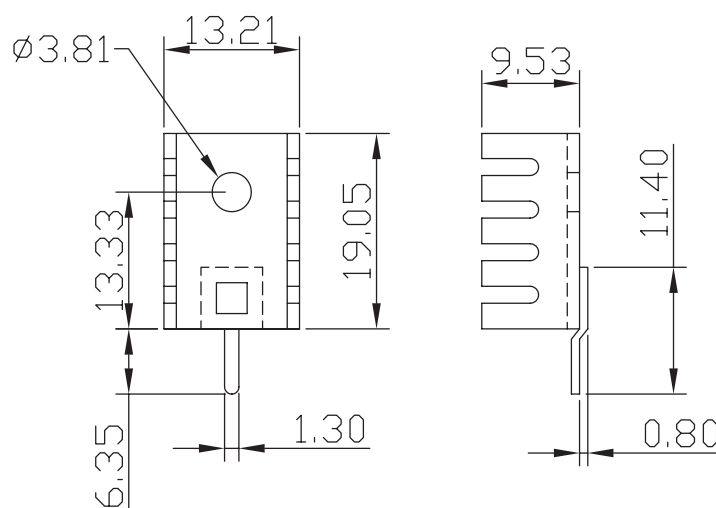
units: mm
tolerance: ± 0.5 mm

MATERIAL	AL1050
FINISH	black anodized
THICKNESS	1.2 mm
PIN MATERIAL	brass
PIN PLATING	tin
WEIGHT	HSS-B20-0635H: 1.5 g HSS-B20-0635H-01: 1.7 g HSS-B20-0635H-02: 2.0 g

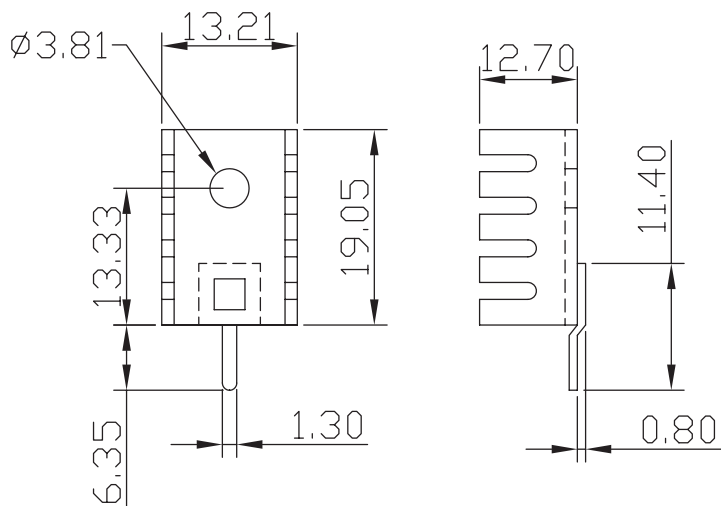
HSS-B20-0635H



HSS-B20-0635H-01



HSS-B20-0635H-02



REVISION HISTORY

rev.	description	date
1.0	initial release	03/29/2017
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.

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices 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.

cuidevices.com