



MODEL: HSS09-B20-P431 | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- solder pin
- aluminum alloy
- black anodized finish



MODEL

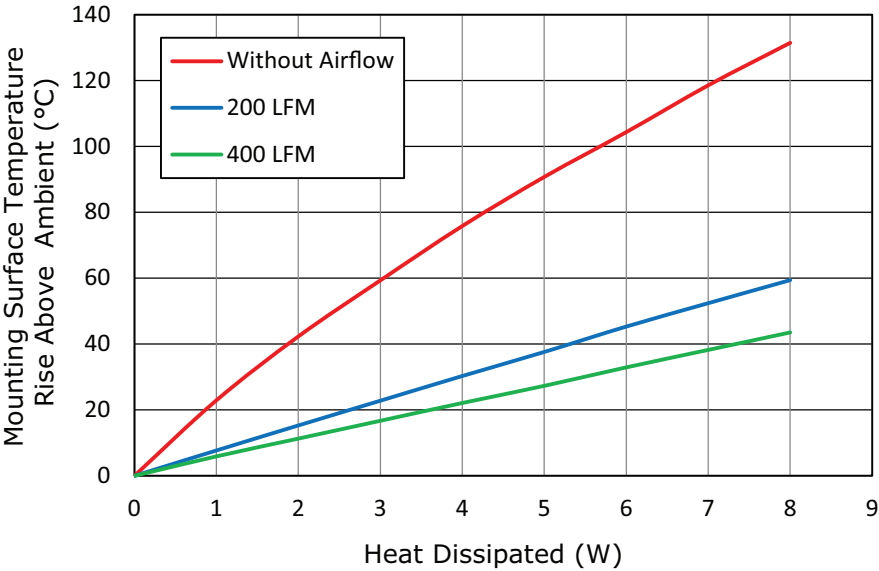
HSS09-B20-P431	thermal resistance ¹				power dissipation ¹
	@ 75°C ΔT, nat conv [°C/W]	@ 1 W, nat conv [°C/W]	@ 1 W, 200 LFM [°C/W]	@ 1 W, 400 LFM [°C/W]	@ 75°C ΔT, nat conv [W]
HSS09-B20-P431	18.82	22.9	7.7	5.9	3.98

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

PERFORMANCE CURVES

Power [W]	Heatsink Temperature Rise Above Ambient (ΔT = T _{hs} - T _a) [°C]		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	22.9	7.7	5.9
2	42.3	15.3	11.3
3	59.3	22.8	16.7
4	75.8	30.3	22.1
5	90.7	37.6	27.3
6	104.3	45.3	32.9
7	118.5	52.6	38.2
8	131.4	59.4	43.5

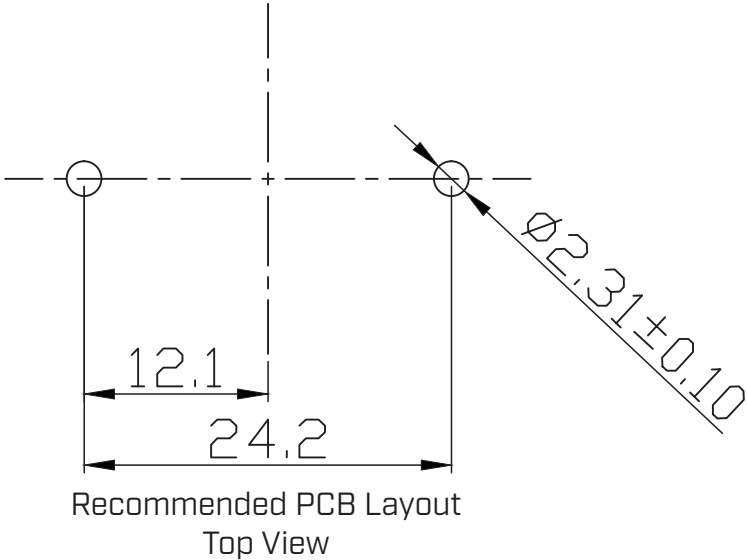
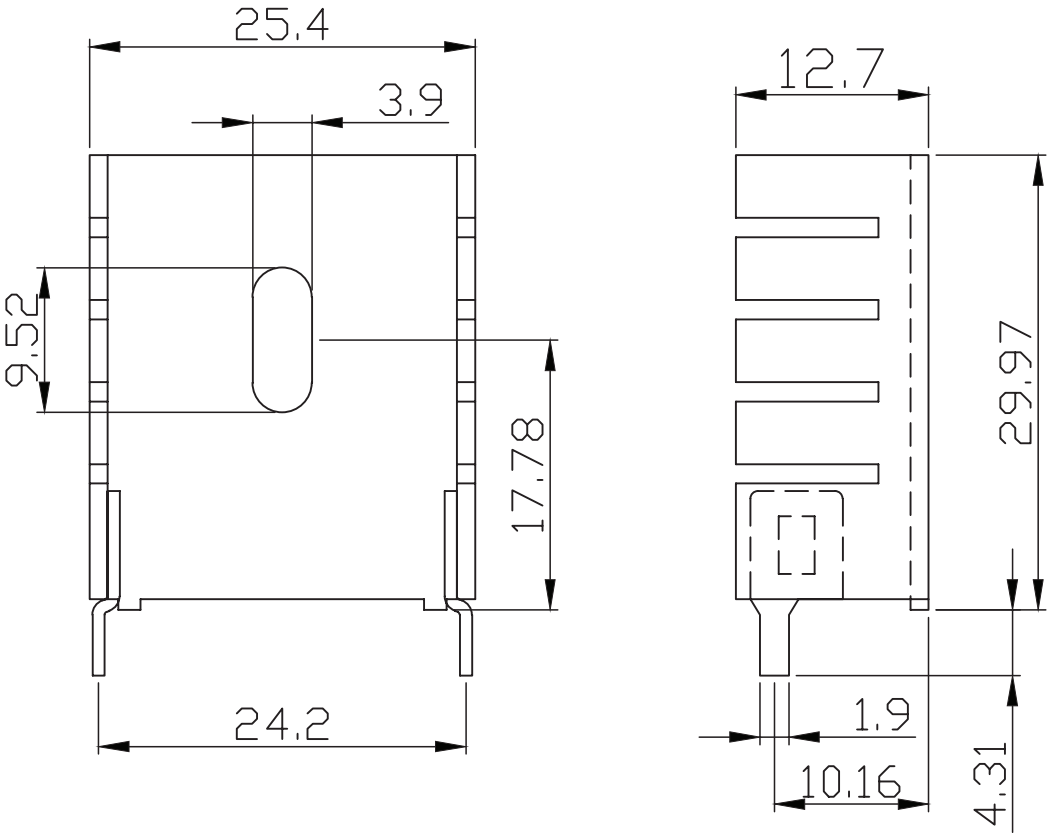
T_{hs}: "hot spot" temperature measured on the heatsink
T_a: ambient temperature



MECHANICAL DRAWING

units: mm
tolerance: ±0.38 mm

MATERIAL	AL 1050
FINISH	black anodized
THICKNESS	1.2 mm
PIN MATERIAL	brass
PIN PLATING	2-3 μm tin
WEIGHT	5.0 g



REVISION HISTORY

rev.	description	date
1.0	initial release	06/25/2021
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024
1.03	added recommended PCB layout	11/14/2025

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



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

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