



# Parametric RPi 4 Heatsink Feeler/Shim



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## Summary

Determine Raspberry Pi 4 maximum heatsink height by trial and error.



0.33 hrs



1 pcs



0.20 mm



0.60 mm



PLA



5 g



Prusa MINI /  
MINI+

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Tags: [openscad](#) [raspberrypi4](#) [heatsink](#)

Determine Raspberry Pi 4 maximum heatsink height by trial and error.

I build this after struggling to figure out what height of heatsink to order to fit a case I wanted to use with my Raspberry Pi 4. No matter how I manoeuvred my calipers I couldn't snake the depth gauge past the fan, down to the CPU. Time to break out a series of shims to see which ones fit!

The Raspberry Pi 4 CPU is covered by a metal (probably nickel plated copper) heat spreader. It's 15mm square with an 0.8mm high square indent, 12.5mm square, in its centre. This spacer fits very neatly on top of this.


Measurements taken from:


<https://grabcad.com/library/raspberry-pi-4-model-b-1>


Print using 0.2mm layers so that 0.8mm indent is printed accurately. PLA is fine - as long as your Raspberry Pi 4 is turned off!


Use the OpenSCAD customiser, enabled in the script, to set custom heights or just use the pre-generated STL or 3MF files with the common heatsink heights I found useful.


## Model files


 **stl** 4 files


 **pi4-heatsink-shim-5mm.stl**

 **pi4-heatsink-shim-6mm.stl**

 **pi4-heatsink-shim-8mm.stl**

 **pi4-heatsink-shim-10mm.stl**

 **pi4-heatsink-shim.scad**

 **pi4-heatsink-shim-collection.3mf**

# Print files



## pi4-heatsink-shim-collection\_06n\_02mm\_pla\_mini\_20m.gcode

PLA 0.60 mm 0.20 mm 0.33 hrs 5 g Prusa MINI / MINI+

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