

Sketch

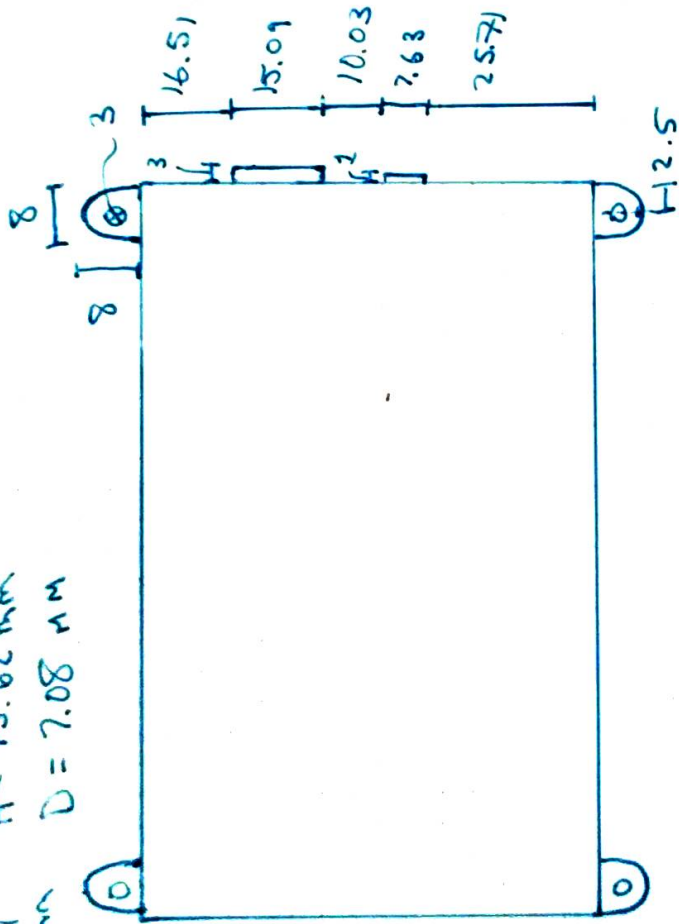
HDMI Monitor -

$W = 120.66 \text{ mm}$

$H = 75.62 \text{ mm}$

$D = 7.08 \text{ mm}$

10mm



HDMI port sticks out 3mm.
PCB thickness \rightarrow 2mm



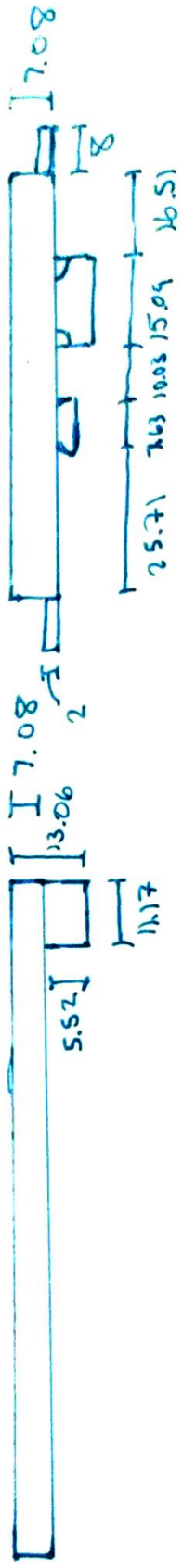
HDMI
15.09
Not to Scale.

USB 5.2



120.66

75.62



PI Zero + Joly bonnet.

W = 64.84 mm
H = 80.64 mm

5mm

(Does not stick out)

D = 11.23 mm

USB 20?

6.61 6.68 7.44 2.44

30 17.44 47.36 2.44

11.34 17.44 2.44

3.07 11.26 6.22 2.44

2.66 10.93 7.53 12mm gap.

11.27 57.06

SD card.

SD card.

SD Card.

thickness 0.7 mm

9.76

15.2

10.93

Not to slide.

my advice is to drill this out later.

7H

5.94

2.33 high.

12.85

11.91

1.67

2.44

1.55

1.35

solder pins stick out 2.64 mm. add some clearance for audio jack.

Perfboard thickness 1.2 mm

POB Pi Zero thickness 1.35 mm

Joly bonnet thickness 1.55 mm

I 3

7.63

Not to slide

Mini HDMI

I 3.52

11.26

SD Card.

thickness 0.7 mm

9.76

15.2

Not to slide.

10.93

my advice is to drill this out later.

7H

5.94

2.33 high.

12.85

11.91

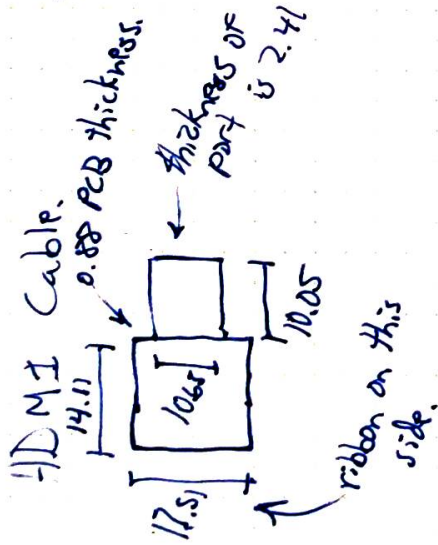
1.67

2.44

1.55

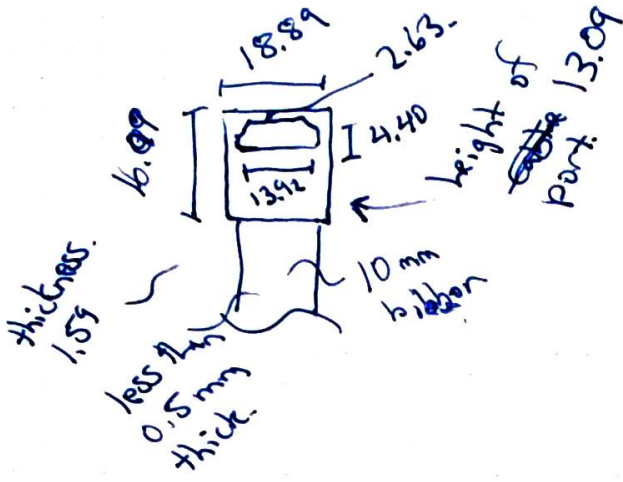
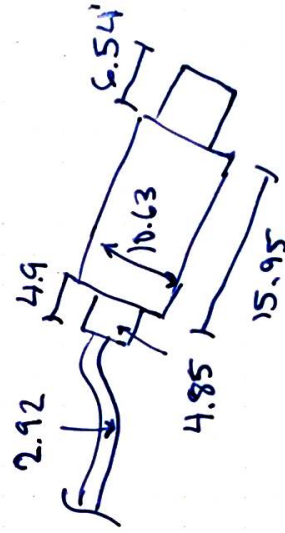
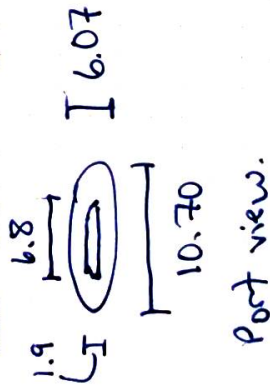
1.35

solder pins stick out 2.64 mm. add some clearance for audio jack.

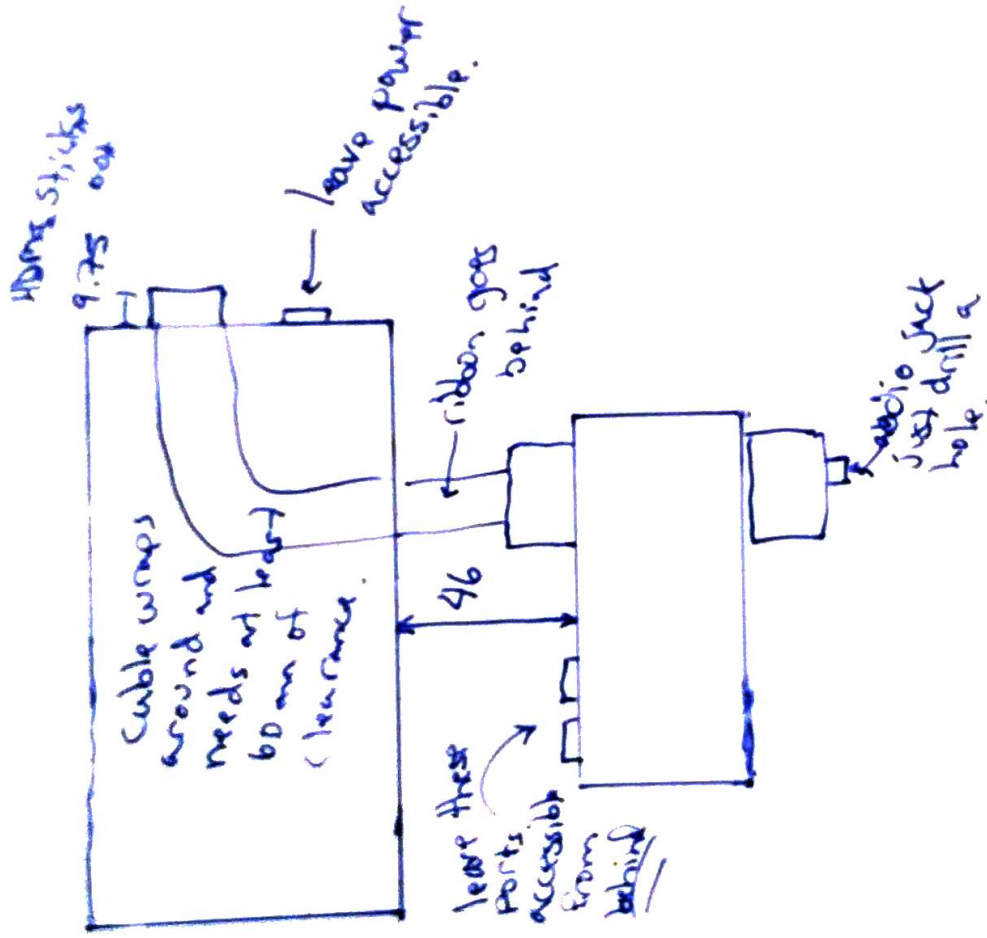


USB cable.

2.92 diameter wire.
each side is the same



Overall Design



46 b/t components.
pi centered

to allow cable access need at least 60 mm of clearance.