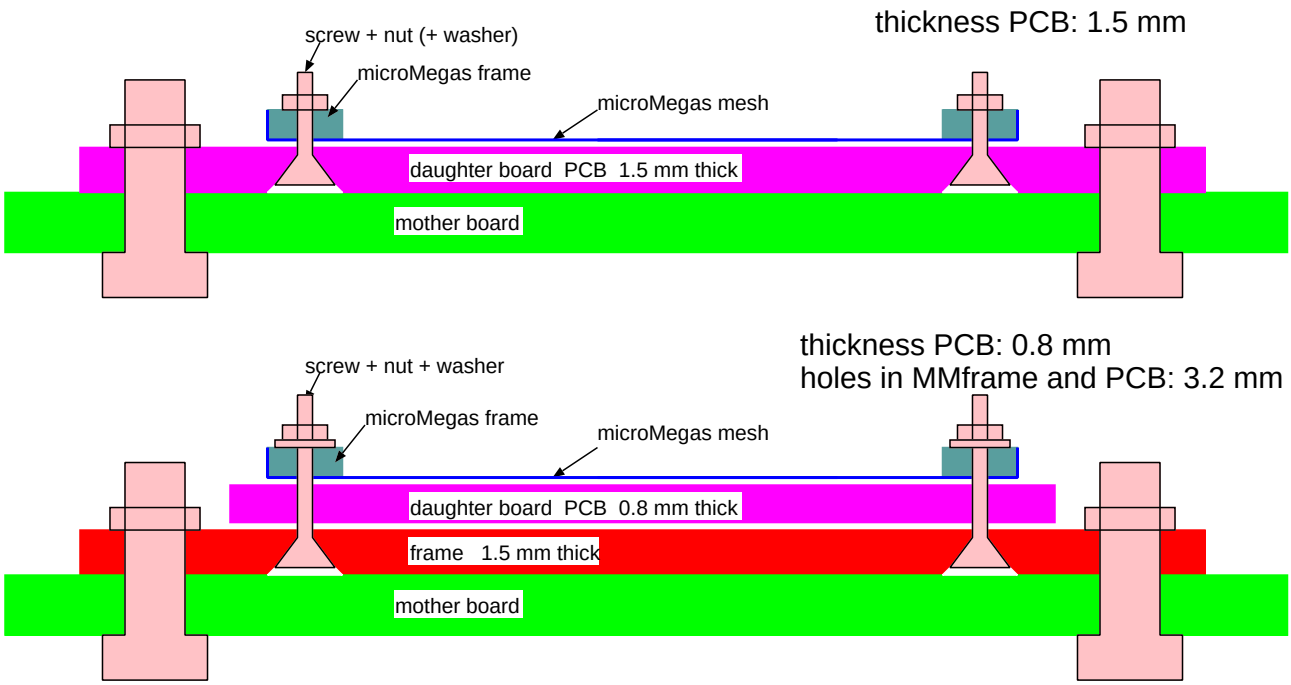
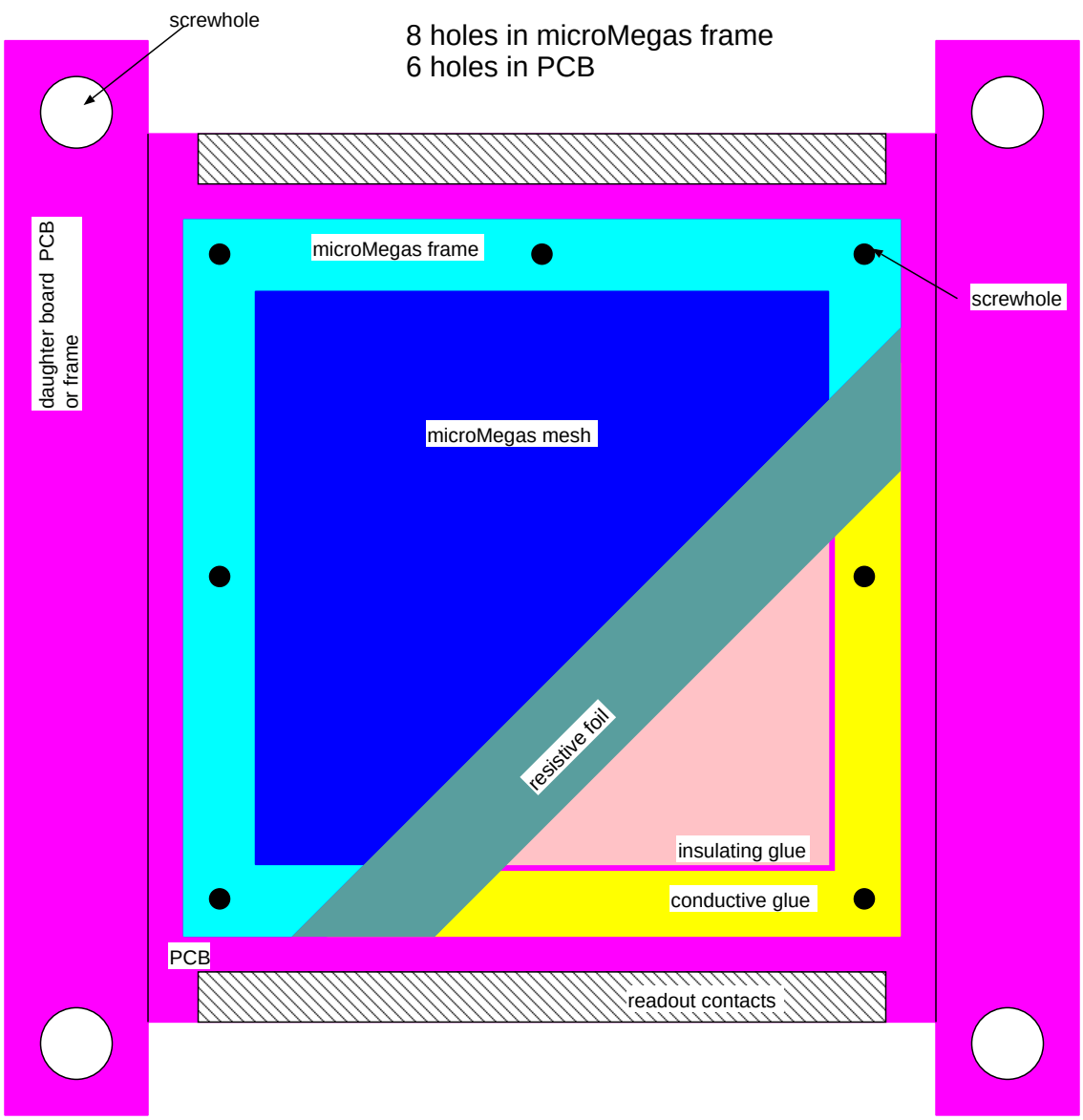
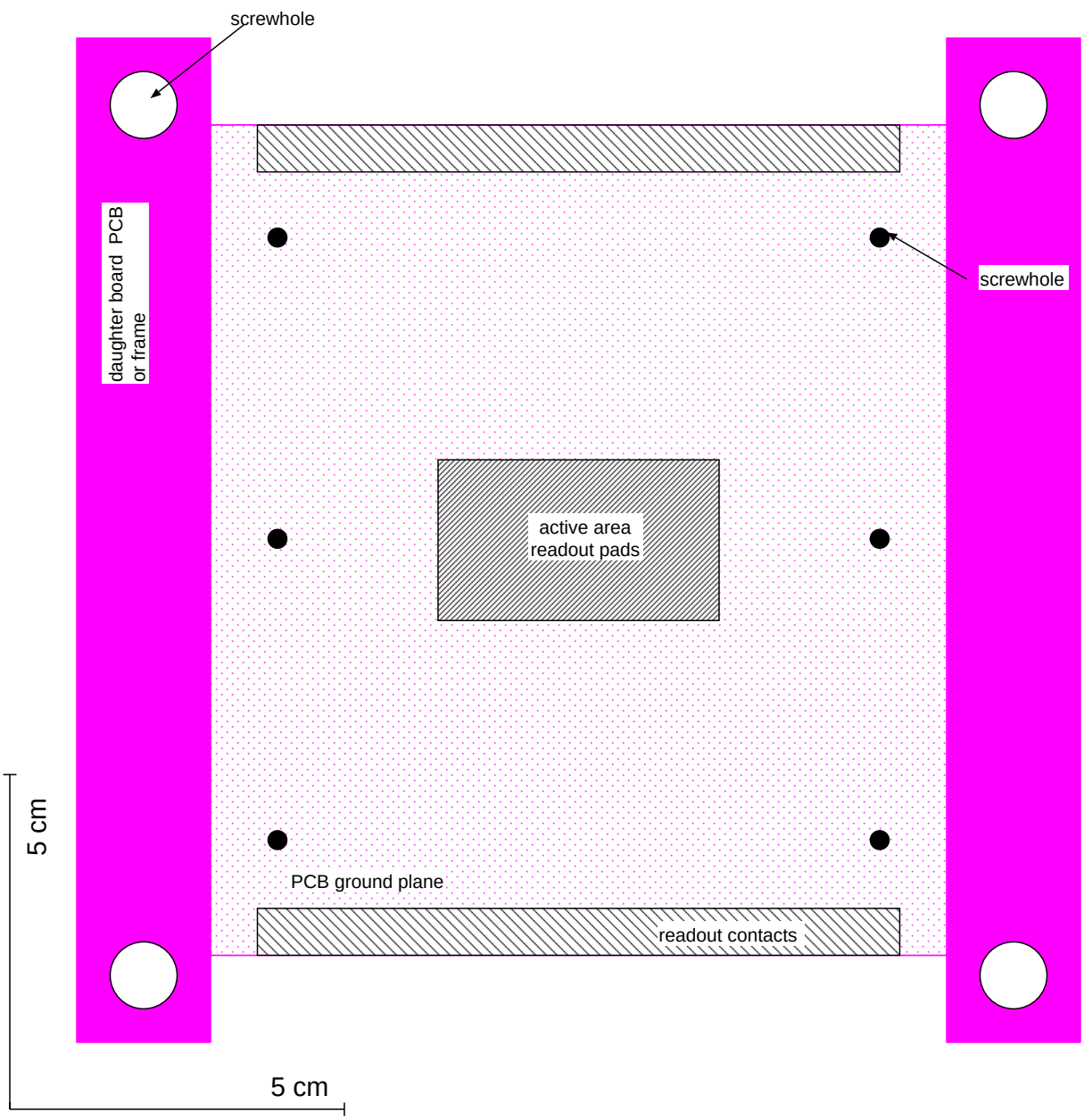
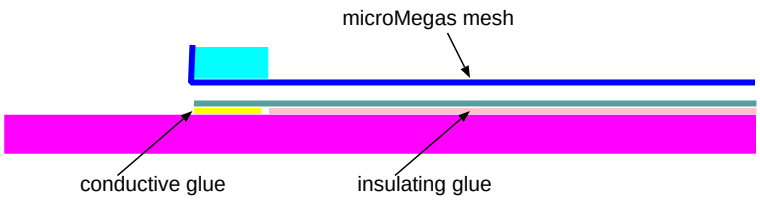

thickness PCB: 1.5 mm
screw + nut (+ washer)
microMegas frame
microMegas mesh
daughter board PCB 1.5 mm thick
mother board
thickness PCB: 0.8 mm
holes in MMframe and PCB: 3.2 mm
screw + nut + washer
microMegas frame
microMegas mesh
daughter board PCB 0.8 mm thick
frame 1.5 mm thick
mother board


screwhole
8 holes in microMegas frame
6 holes in PCB
daughter board PCB or frame
microMegas frame
screwhole
microMegas mesh
resistive foil
insulating glue
conductive glue
PCB
readout contacts
5 cm
5 cm


screwhole
daughter board PCB
or frame
screwhole
active area
readout pads
PCB ground plane
readout contacts
5 cm
5 cm

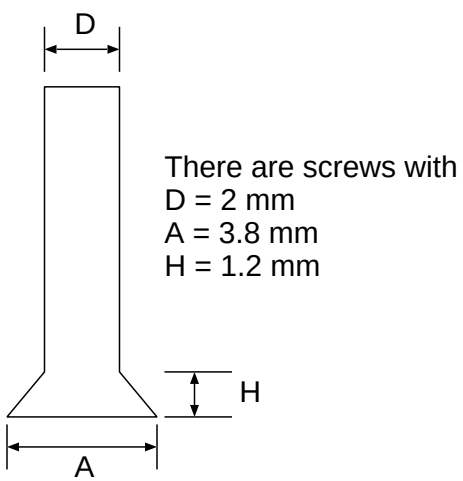


If we use tape for the ground connection of the resistive foil and the PCB we need more space outside the microMegas frame. How much exactly we have to find out, roughly the width of the tape.

3M has double sided adhesive conductive tape but it's not sure that this can be used. So to be safe we should leave enough space at the outside of the microMegas frame to tape the resistive foil to the PCB.

In any case we use the groundplane of the PCB to make ground connection of the resistive foil.

If the PCB is 1.5 mm thick we don't need a frame and can scew the microMegas frame directly to the PCB. The screw heads will be completely burried. Otherwise we use a 1.5 mm thick frame and screw both the PCB and the microMegas frame to it.



There are screws with
D = 2 mm
A = 3.8 mm
H = 1.2 mm