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## Article No.: PCB-SMT-ZIF-FPC

The ZIF/FPC SMT adapter PC-board provides a footprint for vertical ZIF FPC connectors for flex cables (often used with LC displays etc.) from 6-pin up to 50-pin with pin spacing of 0.5mm. It can also be used to assemble more than one connector, e.g. like a 10-pin plus a 20-pin connector or other combinations, which fit in mechanically.

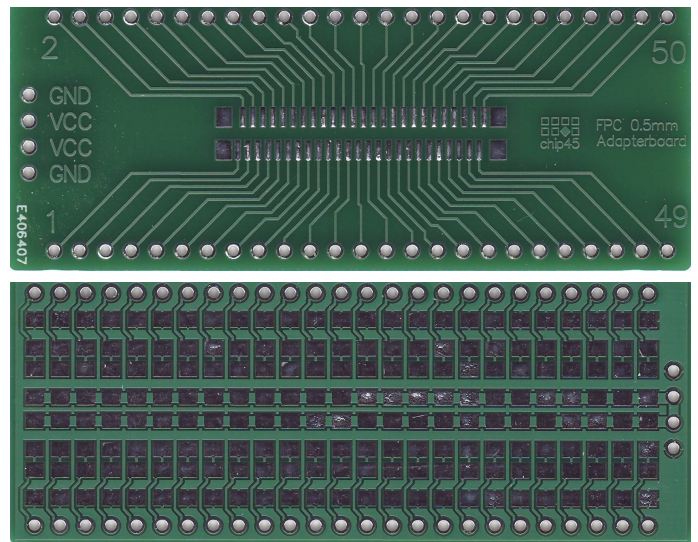
Suitable connectors are "[0.50mm SMT ZIF Vertical Type A WR-FPC](#)" by Würth Elektronik, but most 0.5mm spacing vertical connectors should work, too.

### Top Side Footprint and Pads

The pictures on the right show the top and bottom side of the ZIF/FPC SMT adapter PC-board.

Each pad of the ZIF/FPC footprint is connected to one of the standard 2.54mm (100mil, 1/10") pin headers on the upper and lower side.

Additional VCC and GND pads are available on the left. These pads are especially useful for connecting one or more device pins to VCC or GND, either directly or through an smt capacitor or resistor on the back side.

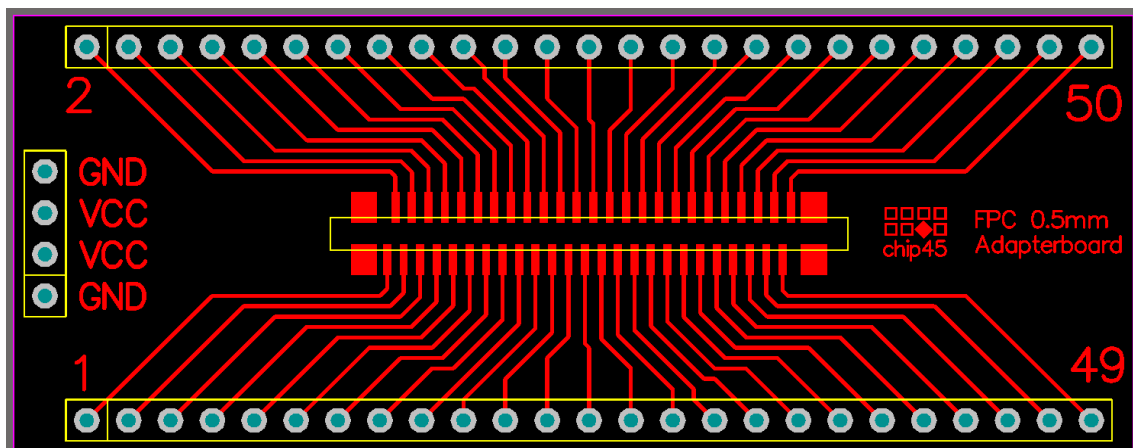


### Back Side Footprint Matrix

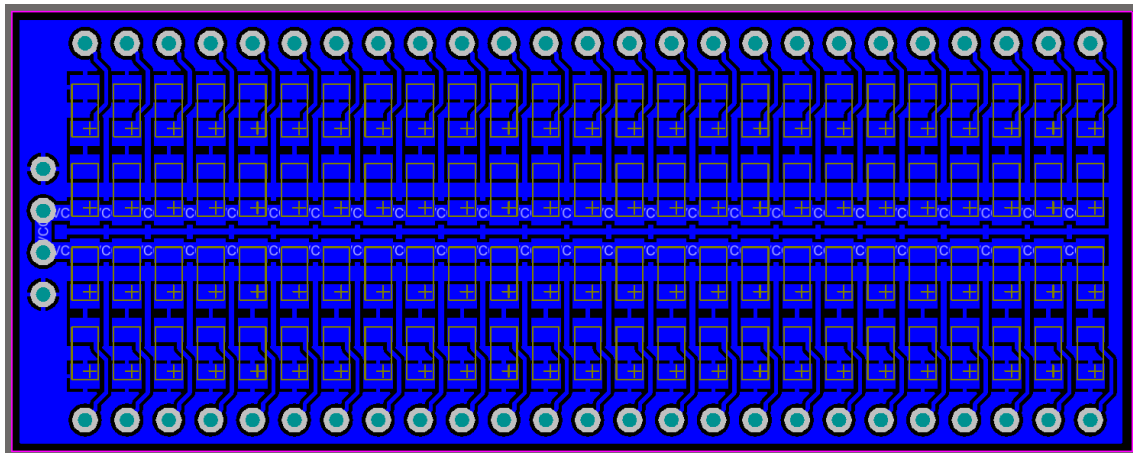
The back side of the PCB provides two 2-pad footprints (mini-melf, 1206, tantal-A sized) on each device signal. One pad of each footprint is connected to the device signal and the other pad is connected to VCC or GND respectively. The footprints can be used to either connect the signal directly to VCC or GND (by closing one footprint with solder like a jumper) or to insert a resistor (e.g. pull-up or pull-down resistor), a capacitor (e.g. 100nF bypass capacitor) or an inductor (e.g. filtering of an analog VCC) between the signal and VCC or GND. The picture on the right shows the bottom side of the PCB with a mini-melf pull-down resistor, a 0603 pull-up resistor, a 0805 bypass capacitor to GND, a mini-melf diode and a solder spot (left to right).



### Layout Details Top and Bottom Side



PCB Top Layer



PCB Bottom Layer

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