Seppoman's SSM2164 PCB (work in progress...)

## Parts List

| Part | Value | Reichelt No. |
|---|---|---|
| C1,C2 | 220 uF | RAD 220/25 |
| C3-C6 | 560 pF | KERKO 560P |
| C7-C12 | 100nF | Z5U-2,5 100N |
| C13-16 | 100pF | NPO-2,5 100P |
| C17-C20 | 470nF | Z5U-5 470N (*2) |
| IC1 | SSM2164PZ | (*) |
| IC2,IC3 | TL074 | TL 074 DIL |
| P1-P4 | 10k | 64W-10K |
| R1-R4, R9-R12, | 27k | METALL 27,0K |
| R17-R24 | 27k | |
| R5-R8 | 470 | METALL 470 |
| R13-R16 | 5.6k | METALL 5,60K |

(IC sockets, pin headers, flat ribbon cable etc are omitted)

Reichelt Public Shopping Cart

### Where to get the SSM2164

(*) There are quite a few places where you can buy the SSM2164. Feel free to add your finds to this section :)

| **Shop** | **Order Code** | **Price** | **Date Price Checked** |
|---|---|---|---|
| **Europe:** | | | |
| Farnell | 1438744 | 6.33 EUR + VAT | *(2010/07/14)* |
| RS | 427-250 | 6.33 EUR + VAT | *(2010/07/14)* |
| **USA:** | | | |
| Digikey | SSM2164PZ-ND | 6.00 USD | *(2010/07/14)* |
| Newark | 19M9009 | 6.06 USD | *(2010/07/14* |

Note that Farnell only delivers to professional customers and university members.

### Value of C17..C20

(*2) These capacitors are part of a low pass filter that smoothes out noise/DAC steps etc from the CV input signal. There's a tradeoff between best cancellation of any zipper/background noise and a very snappy VCA on the other side. The value of 470nF stated in the parts list above is more on the “Silence” side of things. If you prefer a faster response of the VCA in return for some noise in certain situations, you can try lower values in this place. e.g. 220nF is a usable compromise, but you can go lower to 100nF, 10nF or even leave out the capacitor altogether. I suggest you might try out what suits you best with one single channel before stuffing all four caps.

resume writing

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