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.

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