

3320 Low Pass Filter V4.3

The 3320 VCF PCB and Front Panel Kit is a DIY module for Eurorack synthesizers. It features a voltage-controlled low-pass filter that can be built with either AS3320 or CEM3320 integrated circuits. The module offers a wide range of sonic possibilities, from rich bass tones to high-resonance sounds. Users can control the filter's frequency with voltage, allowing for precise sound shaping.

Whats Changed in V4.3

Values of R23, R24 have changed and C12 and C13 are added to increase stability. Value of R25 have changed for improved resonance control.



3320 LPF V4.1 in photo

Bom

Qty	Value	Part Number
1	1.5K	R12
1	1.8K	R16
13	100K	R1, R4, R6, R9, R13, R14, R18, R19, R20, R21, R22, R25, R26
2	100pf	C12, C13
2	100nf	C6, C7
2	100R	R23, R24
2	10uf	C10, C11
1	1uf	C3
3	220K	R5, R10, R11
2	22uf	C8, C9
4	330pf	C1, C2, C4, C5
1	50K / Multi Turn Trimmer	R27
1	51K	R17
1	68K	R15
4	91K	R2, R3, R7, R8
2	B100K / 9mm Potentiometer	FREQ, RESONANCE
1	B10K / 9mm Potentiometer	CVAMOUNT
1	CEM3320	IC1
1	Eurorack Power / IDC Socket	SV1
3	PJM398SM / Jack Socket	CVIN, INPUT, OUTPUT
2	TL072	U1, U2

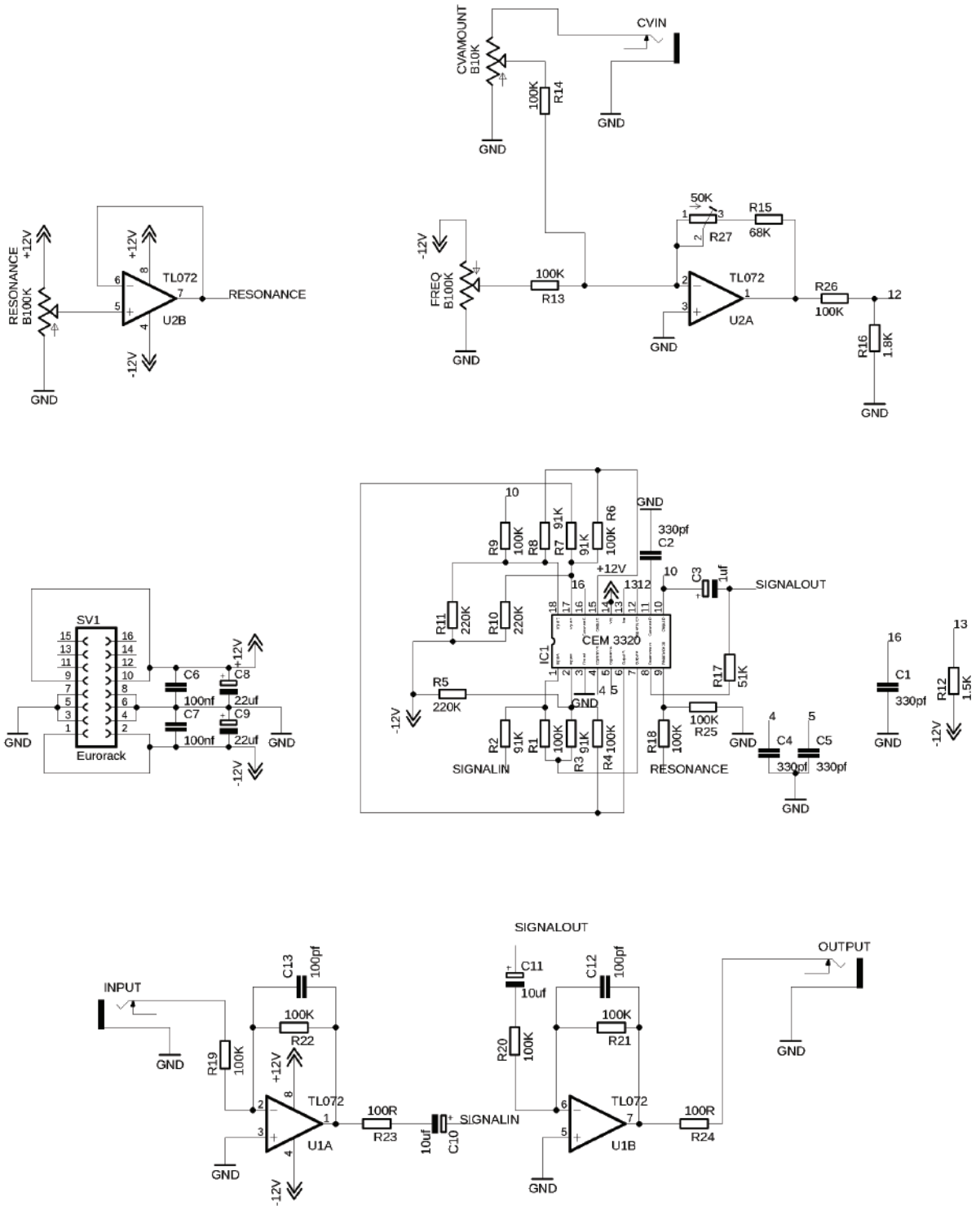
Use capacitors rated 25V or higher.

Calibration

The trimmer is provided to fine-tune the resolution of both the frequency potentiometer and the control voltage. Follow these steps for optimal adjustment:

- 1 - Connect a Voltage-Controlled Oscillator (VCO) with a lower pitch, such as C1.
- 2 - Set both the frequency potentiometer and resonance potentiometer to their minimum values.
- 3 - Adjust the trimmer until the signal on the output is barely visible.

Schematic



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