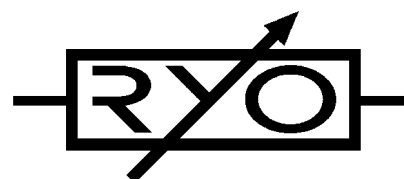


Ljunggren Audio – Roll Your Own
 Bills of material
 VC SEQUENCER 1.5



Type	Qty	Value	Parts	Note
Power header	1	2x5pin	POWER	boxed
Expand header	2	2x5pin	EXPAND-16STEP, EXPAND-CHANNEL	
Pin strip	2	1x8pin	PCB1-CON1, PCB1-CON2	
Socket strip	2	1x8pin	PCB2-CON1, PCB2-CON2	
Rotary pot	8	100K	POT1, POT2, POT3, POT4, POT5, POT6, POT7, POT8	9mm vertical mount
LED	8	Orange 3mm	L1, L2, L3, L4, L5, L6, L7, L8	
Jack	3	3.5mm	J1, J2, J3	PJ301BM
Toggle switch	1	SPDT on-off-on	S1	
Diode	10	1N4148	D4, D5, D6, D7, D8, D9, D10, D11, D12, D13	General purpose.
Diode	2	1N5818	D1, D2	Schottky rectifier. Power polarity protection. Alternatives: 1N5817, 1N5819, SB130.
Resistor	1	1K	R65	
Resistor	2	10R	R1, R2	
Resistor	2	4.7K	R3, R21	
Resistor	12	100K	R8, R11, R12, R54, R55, R56, R57, R58, R59, R60, R61, R64	
Resistor	14	1M	R10, R30, R31, R32, R33, R34, R35, R36, R46, R47, R48, R51, R52, R53	
Resistor	16	2.2K	R14, R15, R16, R17, R18, R19, R20, R22, R23, R24, R25, R26, R27, R28, R29, R66	1% Tolerance
Resistor	18	27K	R4, R5, R6, R7, R9, R13, R37, R38, R39, R40, R41, R42, R43, R44, R45, R49, R50, R62	1% Tolerance for R4-R7.
Capacitor	1	15pF	C25	Ceramic 2.5mm
Capacitor	3	1nF	C22, C23, C24	Ceramic 2.5mm
Capacitor	21	100nF	C1, C2, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C26, C27, C28	Ceramic X7R 2.5mm
Electrolytic	3	10uF	C3, C4, C5	2mm pin pitch, 5mm dia, max 10mm height. Min 25V.
Volt reference	1	LM4040 5V	D3	
IC Socket	4	DIP8	IC1, IC4, IC8, IC11	8 pin
OpAmp	1	LM358	IC1	8 pin
Comparator	1	LM393	IC4	8 pin
OpAmp	2	TL072	IC8, IC11	8 pin
IC Socket	2	DIP14	IC2, IC3	14 pin
Comparator	2	LM339	IC2, IC3	14 pin
IC Socket	5	DIP16	IC5, IC6, IC7, IC9, IC10	16 pin
CMOS Encoder	1	CD4532	IC5	16 pin
CMOS Counter	1	CD4516	IC6	16 pin
CMOS Switch	2	CD4051	IC7, IC9	16 pin
CMOS Buffer	1	CD4050	IC10	16 pin
Faceplate	1		Black 2mm	
PCB1	1		Green 1,6mm	
PCB2	1		Green 1,6mm	
Knob	8		Cream colour	
Spacer	2		M3 11mm	
Nut	2		For spacer M3.	
Screw	2		For spacer M3.	
Power cable	1		16pin – 10pin	
Mount screws	4		Black pozi M3x6	