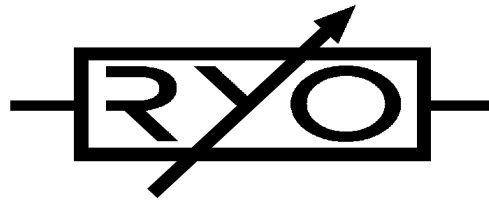


Ljunggren Audio – Roll Your Own  
 Bills of material  
**TRIG XPANDER 1.2**



**PCB1**

TYPE	PART	VALUE	PCS	NOTE
LED	L1,L2,L3,L4,L5,L6,L7,L8	Orange	8	3mm Individual outs
LED	L9	Green	1	3mm Sum out
Diode	D10	1N4148	1	
Resistor	R9,R10	2.2K	2	LED resistors
Resistor	R7	1M	1	
Resistor	R8	1K	1	
Jack	J1,J2,J3,J4,J5,J6,J7,J8,J9	3.5mm	9	PJ301BM-12/Thonkicon/Inline

**PCB2**

TYPE	PART	VALUE	PCS	NOTE
Capacitor	C2,C3,C4,C9	100nF	4	X7R 2.5mm
Capacitor	C8	33nF	1	C0G 2.5mm, Timing cap.
Electrolytic	C1	10uF	1	2mm pin pitch, 5mm dia, 5mm height
Diode	D1	1N5818	1	Or 1N5817, 1N5819 Power polarity protection.
Diode	D2,D3,D4,D5,D6,D7,D8,D9	1N4148	8	
Resistor	R2,R3,R4,R5,R6	33K	5	
Resistor	R1	10R	1	
Resistor	R11,R12,R13,R14,R15,R16,R17,R18	1M	8	
Resistor	R19,R20,R21,R22,R23,R24,R25,R26	1K	8	
IC Socket	IC1	8 pin	1	
Timer	IC1	NE555	1	Or TLC555
IC Socket	IC2	16 pin	1	
CD4xxx	IC2	CD4051	1	Break-before-Make version like TI CD4051BE.
Trimmer	TRIM1	500k	1	Trig length adjustment.
Transistor	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10	BC547	10	NPN transistor.
Pin strip	JP1	3 pin	1	Single row, jumper.
Expand header	IN, THRU	10 pin	2	2 rows x 5 pins
Power header	POWER	10 pin	1	boxed

**OTHER**

TYPE	PART	VALUE	PCS	NOTE
Faceplate			1	PCB material (FR4), black, 2mm
PCB	PCB1,PCB2		1	One PCB split into two with V-Cut.
Power cable		IDC	1	16pin – 10pin
Expansion cable		IDC	1	10pin – 10pin
Mounting screws			2	M3x6 black pozi
Jumper			1	For JP1
Pin strip	CON1,CON2	10 pin	2	Angled 90 degrees, single row. Connects PCB1 and PCB2 together.