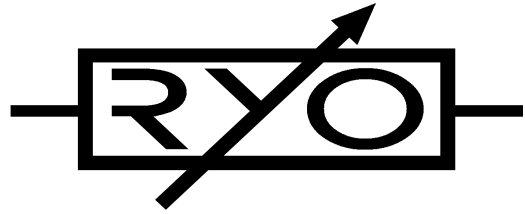


**Ljunggren Audio – Roll Your Own  
Bill of material  
OPTODIST**



TYPE	PART	VALUE	PCS	NOTE
Resistor	R11,R12	10R	2	
Resistor	R5,R10	1K	2	
Resistor	R13,R14	10K	2	
Resistor	R1,R9	68K	2	If you want your Optodist to close better for VCA duties use 10K on R9. However, doing this will lessen the distortion effect.
Resistor	R2	100K	1	
Resistor	R3	100R	1	
Resistor	R4	4.7M	1	
Diode	D2,D3	SB130	2	or 1N5818. Schottky power polarity protection
Capacitor	C3,C4,C5,C6,C10,C11	100nF	6	Ceramic X7R 2.5mm
Capacitor	C2,C9	100pF	2	Ceramic C0G 2.5mm
IC Socket	IC1,IC2	8 pin	2	
OpAmp	IC1,IC2	TL072	2	or TL082
Optocoupler socket	LDR1 x2, LDR2 x2	2 pin	4	One for each side of the optocouplers.
Optocoupler	LDR1,LDR2	SR2/SR3	2	Silonex NSL-32SR2 or NSL-32SR3 "vactrol"
Electrolytic	C7,C8	10µF	2	2mm pin pitch, 5mm dia, 5mm height
Transistor	Q1	BC557B	1	
Transistor	Q2	BC547B	1	
Trimmer	TRIM1	2K	1	Gain range calibration
Jack	J1,J2,J3	3.5mm	3	PJ301BM
Rotary Pot.	POT1	100K lin	1	CV Att.
Rotary Pot.	POT2	22K lin	1	Or 25K lin. Gain
Rotary Pot.	POT3	100K log	1	Signal in Att.
Switch	SW1	SPDT	1	On-On
LED	D1	Orange	1	3mm
LED	D4,D5,D6,D7	Green	4	3mm, LED limiter, other colours may be used.
Power header	POWER	10 pin	1	boxed
Knobs	Small fluted skirtless	cream	3	
Screws	Black, Pozzi	M3x6	2	Mounting screws
PCB			1	
Faceplate	PCB material (FR4)	black	1	
Power cable	Eurorack power cable		1	10pin ↔ 16pin