C7　D1

C1

U1

R17

U2

U3

R16

C8

J2

R12　R14　R7　R9　R4

Knob Depth1

U4

R2

R6　R11　R3

P1

P4

C3

Q2

R15

C4

C6

R13　R5

C5

R10

R8

P3

P2

Knob Speed1

Assign keep-out area to slot
Alert PCB fab to slot details
Slot 1.2x2.5mm PTH
Mech 1 - Slot cut-out
Mech 2 - Clearance, move to internal plane if present

Comment	Description	Designator	Footprint	LibRef	Quantity
Cap Pol1	Polarized Capacitor (Radial)	C1, C2, C3, C4, C5, C6, C7, C8	RAD-0.1	Cap Pol1	8
Diode 1N4148	High Conductance Fast Diode	D1	DO-35	Diode 1N4148	1
Phonejack2	Jack Socket, 1/4" [6.5mm], Thru-Hole, Vertical, 2-Conductor Open Circuit	J1, J2	JACK/6-V2	Phonejack2	2
Header 2	Header, 2-Pin	Knob Depth1, Knob Speed1	HDR1X2	Header 2	2
Digital Arduino	Header, 15-Pin	P1	HDR1X15	Header 15	1
MIDI	Header, 3-Pin	P2	HDR1X3	Header 3	1
Header 10X2	Header, 10-Pin, Dual row	P3	HDR2X10	Header 10X2	1
Analog Arduino	Header, 15-Pin	P4	HDR1X15	Header 15	1
Res1	Resistor	R1, R2, R3, R5, R6, R8, R10, R11, R12, R13, R15, R16, R17	AXIAL-0.3	Res1	13
RPot	Potentiometer	R4, R7, R9, R14	VR5	RPot	4
NE5532P	Dual Low-Noise Operational Amplifier	U1, U3	P008	NE5532P	2
LM13700N	Dual Operational Transconductance Amplifier with Linearizing Diodes and Buffers, 16-pin MDIP	U2	N16E	LM13700N	1
6N138	Optocoupler, Phototran	U4	DIP8	ILD74	1