

# CONTROLLER PCB

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\* No      Name      Value      Layer

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1	NPN	Top	SOT23-3	771-BC847B-T/R
2	NPN	Top	SOT23-3	771-BC847B-T/R
3	NPN	Top	SOT23-3	771-BC847B-T/R
4	NPN	Top	SOT23-3	771-BC847B-T/R
5 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
6 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
7 C	10UF	Top	TYPE0805	81-GRM21BR61C106KI
8 C	10UF	Top	TYPE0805	81-GRM21BR61C106KI
9 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
10 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
11 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
12 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
13 ic	LM7805	Top	5V SOIC-8	926-LM78L05AIMX/NC
14 R	100R	Top	TYPE0805	
15 R	100R	Top	TYPE0805	
16 R	100R	Top	TYPE0805	
17 R	100R	Top	TYPE0805	
18 R	100R	Top	TYPE0805	
19 R	100R	Top	TYPE0805	
20 R	100R	Top	TYPE0805	
21 R	100R	Top	TYPE0805	
22 R	100R	Top	TYPE0805	
23 R	100R	Top	TYPE0805	
24 R	100R	Top	TYPE0805	
25 R	100R	Top	TYPE0805	
26 R	100R	Top	TYPE0805	
27 R	100R	Top	TYPE0805	
28 R	10k	Top	TYPE0805	
29 R	10k	Top	TYPE0805	
30 R	10k	Top	TYPE0805	
31 R	10k	Top	TYPE0805	
32 R	220R	Top	TYPE0805	
33 R	220R	Top	TYPE0805	
34 R	220R	Top	TYPE0805	
35 R	220R	Top	TYPE0805	
36 R	1k	Top	TYPE0805	
37 R	1k	Top	TYPE0805	
38 R	1k	Top	TYPE0805	
39 R	1k	Top	TYPE0805	
40 R	1k	Top	TYPE0805	
41 R	1k	Top	TYPE0805	
42 R	220R	Top	TYPE0805	
43 R	220R	Top	TYPE0805	

44 R	220R	Top	TYPE0805	
45 R	220R	Top	TYPE0805	
46 R	220R	Top	TYPE0805	
47 R	220R	Top	TYPE0805	
48 R	220R	Top	TYPE0805	
49 R	51R	Top	TYPE0805	
50 R	JUMPER	Top	TYPE0805	ZERO-OHM
51 R	JUMPER	Top	TYPE0805	ZERO-OHM
52 R	220R	Top	TYPE0805	

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DAC	1			595-DAC8564IAPW
QUAD OP-AMP	1		SOIC-14	595-OPA4171AIDR
VREF	1		SOIC-8	595-REF02AU/2K5
74HC595	2 PIECES		SOIC-16	863-MC74HC595ADR2
8MHZ	1			815-ABM7-8-D2Y-T
OPTO-MIDI	1		DIP-8	859-6N137
IC	1			595-SN74HC125DR
IC	1			595-SN74LS14DR
ARM	1			511-STM32F103CBT6
3V3	1			926-LM1117MPX3.3NC
MIDI JACK	2			490-SD-50BV
RED DISPLAY	1	DUAL	CATHODE	604-PDC54-11SRWA
3.5MM JACKS	14			
ENCODER	1	30mm		652-PEC12R-4230F-S24
3mm LED	4			
SWITCH	1	MINI TOGG	SPDT	
A15	3	CAPS	BUTTON	ALIEXPRESS
TACTILE SW	5	6X6X7.3mm	SQ HEAD	642-MJTP1234A

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MAIN CORE	PCB
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* No	Name	Value	Layer
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1 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
2 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
3 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
4 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
5 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
6 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
7 C	100n	Top	TYPE0805	581-0805YG104ZAT2A

8 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
9 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
10 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
11 C	100n	Top	TYPE0805	581-0805YG104ZAT2A
12 C	10UF	Top	TYPE0805	81-GRM21BR61C106KI
13 C	10UF	Top	TYPE0805	81-GRM21BR61C106KI
14 C	10UF	Top	TYPE0805	81-GRM21BR61C106KI
15 C	10UF	Top	TYPE0805	81-GRM21BR61C106KI
16 C	18PF	Top	TYPE0805	581-08051A180K
17 C	18PF	Top	TYPE0805	581-08051A180K
18 C	18PF	Top	TYPE0805	581-08051A180K
19 C	18PF	Top	TYPE0805	581-08051A180K
20 C	18PF	Top	TYPE0805	581-08051A180K
21 C	18PF	Top	TYPE0805	581-08051A180K
22 C	4U7	Top	TYPE0805	GRM21BR61C475KA88
23 D	SS14	Top		512-SS14
24 D	SS14	Top		512-SS14
25 D	DIODE	Top	TYPE0805	821-TS4148-0805-RY
26 R	1k	Top	TYPE0805	
27 R	1k	Top	TYPE0805	
28 R	1k	Top	TYPE0805	
29 R	1k	Top	TYPE0805	
30 R	47K	Top	TYPE0805	
31 R	1k	Top	TYPE0805	
32 R	10k	Top	TYPE0805	
33 R	10k	Top	TYPE0805	
34 R	10k	Top	TYPE0805	
35 R	47k	Top	TYPE0805	
36 R	47k	Top	TYPE0805	
37 R	47k	Top	TYPE0805	
38 R	47k	Top	TYPE0805	
39 R	47K	Top	TYPE0805	
40 R	240K	Top	TYPE0805	
41 R	240K	Top	TYPE0805	
42 R	240K	Top	TYPE0805	
43 R	240K	Top	TYPE0805	
44 R	JUMPER	Top	TYPE0805	ZERO-OHM
45 R	JUMPER	Top	TYPE0805	ZERO-OHM
46 R	JUMPER	Top	TYPE0805	ZERO-OHM
47 R	JUMPER	Top	TYPE0805	ZERO-OHM

E15

E15

DPB

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G

DPB

4

2 RED  
3 FOR PANEL

1 GREY  
2 FOR PROGRAMMING

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E15

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