

clee 4U CV2MIDI- BOM

Resistors					
	Designator	Quantity	Value	Package	Notes
1	R201	1	100R	R_0805	Tayda 1% 805 resistors
2	R202 R203	2	220R	R_0805	
3	R107 R110 R108 R109	4	10K	R_0805	
4	R111	1	15K	R_0805	
5	R205 R204	2	RLED (22K)	R_0805	
6	R102 R104 R106 R101 R103 R105 R309 R311 R313 R315 R301 R303 R305 R307 R324 R326 R328 R330 R317 R318 R320 R322 R310 R312 R314 R316 R302 R304 R306 R308 R327 R329 R331 R332 R319 R321 R323 R325	38	100K	R_0805	

Capacitors					
	Designator	Quantity	Value	Package	Notes
7	C202	1	10p	C_0805	Tayda 805 capacitors
8	C106 C107	2	47p	C_0805	
9	C103 C104 C115 C114 C113 C111 C112 C116 C117 C110 C301 C302 C303 C304	14	100n	C_0805	
10	C204	1	1uf	C_0805	
11	C201	1	4.7uf	C_0805	
12	C101 C102 C206 C203 C205	5	10uf	Radial_P2.50mm	

Diodes					
	Designator	Quantity	Value	Package	Notes
13	D201 D202	2	LED	3mm LED	https://www.taydaelectronics.com/leds/round-leds/3mm-leds/led-3mm-red.html

Silicon					
	Designator	Quantity	Value	Package	Notes
14	U101	1	TL072	SOIC-8	
15	U104	1	MCP6002	SOIC-8	
16	U105	1	CD4066	SOIC-14	https://www.digikey.com/en/products/detail/texas-instruments/CD4066BM96/555773
17	U302 U303 U304 U301	4	CD4532	SOIC-16	https://www.digikey.com/en/products/detail/texas-instruments/CD4532BM96/1691625
18	U201	1	74HCT04	SOIC-14	https://www.digikey.com/en/products/detail/texas-instruments/SN74HCT04DR/276848
19	U202	1	ADS8685IPWR	16-TSSOP (0.173", 4.40mm Width)	https://www.digikey.com/en/products/detail/texas-instruments/ADS8685IPW/8132969
20	U203	1	Teensy4.0	teensy board	https://www.digikey.com/en/products/detail/sparkfun-electronics/DEV-15583/10384551

Other					
	Designator	Quantity	Value	Package	Notes
21	FB101 FB102	2	Ferrite_Bead	THT_Axial	https://www.taydaelectronics.com/axial-ferrite-bead-76-ohm.html
22	SW201	1	Switch SPDT	Subminiature SPDT toggle	
23	SW301 SW302 SW304 SW303	4	Rotary Switch 1P8T	Adafruit_1P8T	https://www.digikey.com/en/products/detail/adafruit-industries-llc/2925/17282424
24	RV102 RV104 RV101 RV103	4	50K	Alpha 9mm	https://www.taydaelectronics.com/50k-ohm-linear-taper-potentiometer-round-shaft-pcb-9mm.html
25	J102	1	4 pin connector	4 pin .156	
26		1	2.54mm header pins	28 pins	
27		1	2.54mm header sockets	28 pins	
28	J206	1	DIN-5	MIDI jack	https://www.digikey.com/en/products/detail/same-sky-formerly-cui-devices/SD-50LS/500833
29	B102 B101	2	Banana Jacks (Blue)		
30		2	Fresnel lens	visual communications – clear	https://www.digikey.com/en/products/detail/visual-communications-company-vcc/SMB-200-CTP/4515612

Power					
	Designator	Quantity	Value	Package	Notes
USE A or B components for linear regulation or Recom DC to DC converter					

A Recom DC to DC converter					
31	U102	1	R-78E-5	TO-220-3 spacing	https://www.digikey.com/en/products/detail/recom-power/R-78E5-0-1-0/4930585
32	L101	1	inductor	RLS-126-R	https://www.digikey.com/en/products/detail/recom-power/RLS-126-R/9920835
33	C105	1	10uf	Radial_P2.50mm	
34	C108	1	4.7uf	C_0805	

B Linear voltage regulator					
35	U103	1	L7805	TO-220-3_Vertical	
36	C109	1	330n	C_0805	
31		1	Heat Sink		https://www.digikey.com/en/products/detail/boyd-laconia-llc/507002B00000G/5846?s=N4lgTCBcDaIBIGUCMSwFoByAREBdAvkA