

# clee 4U Looping Gain Sequencer – BOM

Resistors					
	Designator	Quantity	Value	Package	Notes
1	R118	1	100R	SMD:R_0805	Tayda 1% 805 resistors
2	R136, R312	2	300R	SMD:R_0805	
3	R357, R356, R348, R347, R336, R346, R345, R335, R344, R343, R334, R342, R341, R333, R328, R327, R316, R326, R325, R315, R324, R323, R314, R322, R321, R313,	26	1K	SMD:R_0805	
4	R353	1	2.2K	SMD:R_0805	
5	R273	1	3.3K	SMD:R_0805	
6	R102, R101, R137, R134, R108, R109, R119, R223, R224, R225, R226, R227, R228, R229, R241, R242, R243, R244, R245, R246, R247, R288, R293, R291, R289, R355, R311	27	10K	SMD:R_0805	
7	R117, R131, R133	3	15K	SMD:R_0805	
8	R309	1	20K	SMD:R_0805	
9	R114, R115, R235, R234, R233, R232, R231, R237, R236, R340, R339, R338, R337, R320, R319, R318, R317	17	22K – RLED	SMD:R_0805	RLED – select for desired brightness
10	R127, R130	2	39K	SMD:R_0805	
11	R113, R120, R122, R126	4	47K	SMD:R_0805	
12	R209, R210, R211, R212, R213, R214, R215, R354,	8	51K	SMD:R_0805	
13	R107	1	68K	SMD:R_0805	

14	R103, R104, R105, R106, R116, R121, R123, R125, R124, R129, R132, R136, R272, R265, R266, R267, R268, R269, R270, R271, R301, R352, R351, R350, R349, R332, R331, R330, R329, R310, R308, R307, R306, R305, R304, R303, R302,	37	100K	SMD:R_0805	
15	R111	1	160K	SMD:R_0805	
16	R110, R112, R128, R131	4	200K	SMD:R_0805	
17	R290, R292, R294	3	10M	SMD:R_0805	
18	R216, R217, R218, R219, R220, R221, R222, R249, R250, R251, R252, R253, R254, R255	14	20M	SMD:R_0805	Tayda or Digikey 1% 805 <a href="https://www.digikey.com/en/products/detail/yageo/RC0805JR-0720ML/5919059">https://www.digikey.com/en/products/detail/yageo/RC0805JR-0720ML/5919059</a>

Resistors 0.1%					
	Designator	Quantity	Value	Package	Notes
19	R201, R202, R203, R204, R205, R206, R207, R208, R257, R258, R260, R261, R262, R263, R264, R259	16	1K 0.1%	SMD:R_0805	<a href="https://www.digikey.com/en/products/detail/panasonic-electronic-components/ERA-6AEB102V/1465748">https://www.digikey.com/en/products/detail/panasonic-electronic-components/ERA-6AEB102V/1465748</a>
20	R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R256, R248, R239, R238, R230, R240,	20	100K 0.1%	SMD:R_0805	<a href="https://www.digikey.com/en/products/detail/panasonic-electronic-components/ERA-6AEB104V/1465797">https://www.digikey.com/en/products/detail/panasonic-electronic-components/ERA-6AEB104V/1465797</a>

Capacitors					
	Designator	Quantity	Value	Package	Notes
21	C105, C106, C110, C111, C301	7	22p	SMD:C_0805	Tayda 805 capacitors
22	C107	1	5n	SMD:C_0805	
23	C307, C308, C309, C310, C311, C312, C313, C314	8	10n	SMD:C_0805	

24	C103, C104, C109, C114, C115, C305, C306, C333, C334, C335, C336, C329, C304, C303, C332, C326, C323, C318, C315, C320, C331, C330, C328, C327, C325, C324, C322, C321, C319, C317, C316	31 (29)	100n bypass cap (BP)	SMD:C_0805	C114 and C114 for 15 volts only
25	C112, C113, C108	3 (1)	330n	SMD:C_0805	C112 and C113 for 15 volts only
26	C101, C102	2	10ufd		Electrolytic THT
27	C201, C302	2	NF (not fitted)	SMD_C_0805	

Diodes					
	Designator	Quantity	Value	Package	Notes
28	D101, D102, D305, D306, D307, D308, D313, D314, D315, D316, D317, D318	12	4148	SOD-80	<a href="https://www.taydaelectronics.com/diodes/standard/dll4148-small-signal-diode-200ma-100v.html">https://www.taydaelectronics.com/diodes/standard/dll4148-small-signal-diode-200ma-100v.html</a>
29	D103, D106	2	LS103A	SOD-80_SHOTTKY	<a href="https://www.digikey.com/en/products/detail/vishay-general-semiconductor-diodes-division/LS103A-GS08/4831810">https://www.digikey.com/en/products/detail/vishay-general-semiconductor-diodes-division/LS103A-GS08/4831810</a>
30	D104, D105, D201, D202, D203, D204, D205, D206, D207, D301, D302, D303, D304, D309, D310, D311, D312	17	LED	LED_D3.0mm_Red	<a href="https://www.taydaelectronics.com/leds/round-leds/3mm-leds/led-3mm-red.html">https://www.taydaelectronics.com/leds/round-leds/3mm-leds/led-3mm-red.html</a>

Silicon					
	Designator	Quantity	Value	Package	Notes
31	Q301, Q302, Q303, Q304, Q305, Q306, Q307, Q308, Q309	9	BC847	SOT-23	<a href="https://www.taydaelectronics.com/bc847-transistor-npn-45v-0-1a-sot-23-3-bc847c-215.html">https://www.taydaelectronics.com/bc847-transistor-npn-45v-0-1a-sot-23-3-bc847c-215.html</a>
32	U210	1	LM4040 8.2	SOT-23	<a href="https://www.digikey.com/en/products/detail/texas-instruments/LM4040CIM3-8-2-NOPB/305137">https://www.digikey.com/en/products/detail/texas-instruments/LM4040CIM3-8-2-NOPB/305137</a>
33	U302	1	TL071	SOIC-8	
34	U102, U103, U104, U105, U301	5	TL072	SOIC-8	
35	U101, U209	2	TL074	SOIC-14	
36	U201, U202, U203, U204, U205, U206	6	LM339	SOIC-14	

37	U207, U208	2	CD4070	SOIC-14	<a href="https://www.digikey.com/en/products/detail/texas-instruments/CD4070BM96/1691299">https://www.digikey.com/en/products/detail/texas-instruments/CD4070BM96/1691299</a>
38	U106	1	AS3364	SOIC-16	
39	U107	1	L7805	TO-92 Inline	
40	U108	1	L7812	TO-220-3	*For 15 volt builds only
41	U109	1	L7912	TO-220-3	*For 15 volt builds only

Other					
	Designator	Quantity	Value	Package	Notes
42	FB101, FB102	2	Ferrite_Bead_Small	THT	<a href="https://www.taydaelectronics.com/axial-ferrite-bead-76-ohm.html">https://www.taydaelectronics.com/axial-ferrite-bead-76-ohm.html</a>
43	SW101	1	SW_SPDT	submini_SPDT	
44	RV105, RV108, RV109	3	20K Trim pot		<a href="https://www.taydaelectronics.com/potentiometer-variable-resistors/cermet-potentiometers/3296w/50k-ohm-trimmer-potentiometer-cermet-25-turns-3296w-jbr.html">https://www.taydaelectronics.com/potentiometer-variable-resistors/cermet-potentiometers/3296w/50k-ohm-trimmer-potentiometer-cermet-25-turns-3296w-jbr.html</a>
45	RV101, RV102, RV103, RV104, RV106, RV107, RV301, RV302, RV303, RV304, RV305, RV306, RV307, RV308	14	50K	Alpha_RD901F-40-00D_Single_Vertical	<a href="https://www.taydaelectronics.com/50k-ohm-linear-taper-potentiometer-round-shaft-pcb-9mm.html">https://www.taydaelectronics.com/50k-ohm-linear-taper-potentiometer-round-shaft-pcb-9mm.html</a>
46	J113	1	Test Point 01	PinHeader_2.54mm	
47	J112, J101	2	Conn_01x04	Molex .156	
48	Stackable header female	*	46 positions	2.54mm:PinHeader_Vertical	<a href="https://www.taydaelectronics.com/connectors-sockets/pin-headers/40-pin-male-2-54-mm-single-row-pin-header-break-away-round-pin-gold-plated.html">https://www.taydaelectronics.com/connectors-sockets/pin-headers/40-pin-male-2-54-mm-single-row-pin-header-break-away-round-pin-gold-plated.html</a>
49	Stackable header male	*	46 positions	2.54mm:PinSocket_Vertical	<a href="https://www.taydaelectronics.com/connectors-sockets/pin-headers/40-pin-2-54-mm-single-row-female-pin-header.html">https://www.taydaelectronics.com/connectors-sockets/pin-headers/40-pin-2-54-mm-single-row-female-pin-header.html</a>
50		14	BANANA_JACK BLUE	Banana Jacks	
51		1	BANANA_JACK RED	Banana Jacks	
52		17	Fresnel lens	visual communications – clear	<a href="https://www.digikey.com/en/products/detail/visual-communications-company-vcc/SMB-200-CTP/4515612">https://www.digikey.com/en/products/detail/visual-communications-company-vcc/SMB-200-CTP/4515612</a>