

clee Radio Gage voltage controlled radio - BOM

RESISTORS

	Designator	Quantity	Designation	Package	Supplier and ref
1	R103	1	10R	R_0805	Tayda 0805 1% resistors
2	R116	1	50R (on panel PCB)	R_0805	
3	R204, R404	2	470R	R_0805	
4	R211, R213	2	510R	R_0805	
5	R405, R328, R104, R107, R318, R408, R411, R212, R214, R215	10	1K	R_0805	
6	R412	1	1K2	R_0805	
7	R307, R327	2	1K5	R_0805	
8	R406	1	1K8 (on panel PCB)	R_0805	
9	R302	1	2K4	R_0805	
10	R319	1	5K1	R_0805	
11	R106, R112, R114, R115, R123, R125, R126, R128, R130, R131, R203, R206, R207, R208, R209, R210, R301, R315, R321	18	10K (5 on panel PCB)	R_0805	
12	R303, R317	2	15K	R_0805	
13	R309	1	18K	R_0805	
14	R135, R134, R121, R133, R120, R122, R124	8	20K (on panel PCB)	R_0805	
15	R111, R113, R403	3	22K	R_0805	
16	R119, R127, R129, R305	4	30K (3 on panel PCB)	R_0805	
17	R118, R312	2	33K (1 on panel PCB)	R_0805	
18	R304	1	39K	R_0805	
19	R117	1	47K (on panel PCB)	R_0805	

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20	R108, R205, R320, R331, R407	5	51K (1 on panel PCB)	R_0805	
21	R306	1	68K	R_0805	
22	R102, R105, R109, R110, R201, R202, R310, R313, R314, R316, R322, R324, R325, R326, R329, R330, R332, R401, R402, R409	20	100K	R_0805	
23	R101, R132	2	120K	R_0805	
24	R323	1	200K	R_0805	
25	R311	1	220K	R_0805	
26	R410	1	390K	R_0805	
27	R308	1	1MEG	R_0805	

CAPACITORS

	Designator	Quantity	Designation	Package	Supplier and ref
28	C405	1	4.7n	Poly Box Type THT	Tayda polyester film box type
29	C404	1	22n	Poly Box Type THT	
30	C205, C204	2	33n	Poly Box Type THT	
31	C317, C403	2	1uf (1 on panel PCB)	Poly Box Type THT	
32	C109	1	10pf	C_0805	Tayda 0805
33	C203, C123, C122, C121, C115, C116	6	22pf	C_0805	
34	C114	1	33pf	C_0805	
35	C318, C316, C315, C314, C313, C312, C308	7	47pf	C_0805	
36	C301	1	4.7n	C_0805	
37	C101, C103	2	33n	C_0805	
38	C102, C111	2	47n	C_0805	

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39	C118, C310, C309, C106, C107, C108, C113, C117, C201, C202, C302, C303, C304, C305, C306, C307, C401, C402	18	100n	C_0805	
40	C112	1	330n	C_0805	
41	C104, C105, C119, C120, C110, C311	6	10uf	Electrolytic	

FERRITE

Designator	Quantity	Designation	Package	Supplier and ref	
42	FB101, FB102	2	Ferrite Beadl	Axial Through Hole	Tayda (45R @ 24mhz)
43	FB103	1	2.5k/100mhz	805	<a href="https://www.digikey.com/en/products/detail/pulse-electronics/BBBK00201209252Y00/16500715">https://www.digikey.com/en/products/detail/pulse-electronics/BBBK00201209252Y00/16500715</a>

DIODE

Designator	Quantity	Designation	Package	Supplier and ref	
44	D305, D302, D104, D103	4	Schottky Diode	SOD-80	<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>
45	D308, D301	2	5.1V Zener	SOD-80	<a href="https://www.digikey.com/en/products/detail/vishay-general-semiconductor-diodes-division/BZT55CV1-GS08/4830961">https://www.digikey.com/en/products/detail/vishay-general-semiconductor-diodes-division/BZT55CV1-GS08/4830961</a>
46	D202, D303, D304, D306, D307, D402, D403	7	4148 type	SOD-80	<a href="https://www.taydaelectronics.com/diodes/standard/fdl14148-small-signal-diode-200ma-100v.html">https://www.taydaelectronics.com/diodes/standard/fdl14148-small-signal-diode-200ma-100v.html</a>
47	D401, D201	2	3V Zener	SOD-80	<a href="https://www.digikey.com/en/products/detail/vishay-general-semiconductor-diodes-division/bzt55c3v0-gs08/4830952">https://www.digikey.com/en/products/detail/vishay-general-semiconductor-diodes-division/bzt55c3v0-gs08/4830952</a>
48	D102, D101	2	CM1213A-01	TSOT-23	<a href="https://www.digikey.com/en/products/detail/onsemi/CM1213A-01SO/2401190">https://www.digikey.com/en/products/detail/onsemi/CM1213A-01SO/2401190</a>

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SILICON				
Designator	Quantity	Designation	Package	Supplier and ref
49 Q101	1	NTE15 (ECB) RF Amp	SIPAK_Vertical	<a href="https://www.digikey.com/en/products/detail/nte-electronics-inc/NTE15/11648352">https://www.digikey.com/en/products/detail/nte-electronics-inc/NTE15/11648352</a>
50 U103	1	L78L33 Regulator	TO-92	Tayda
51 U302	1	TL072	SOIC-8	" "
52 U201	5	TL074	SOIC-14	" "
53 U304	1	AS3360 Dual VCA	SOIC-14	<a href="https://synhcube.com/cart/alfa-rpar-audio-ics">https://synhcube.com/cart/alfa-rpar-audio-ics</a>
54 U102	1	SI4825 Radio	SOIC-16	<a href="https://www.digikey.com/en/products/detail/skyworks-solutions-inc/SI4825-A10-CS/4069434">https://www.digikey.com/en/products/detail/skyworks-solutions-inc/SI4825-A10-CS/4069434</a>
55 VAC201, VAC202, VAC401	3	NSL-32SR3	Luna_NSL-32	<a href="https://www.digikey.com/en/products/detail/advanced-photonix/NSL-32SR3/5039793">https://www.digikey.com/en/products/detail/advanced-photonix/NSL-32SR3/5039793</a>

POTENTIOMETERS				
Designator	Quantity	Designation	Package	Supplier and ref
56 TR301, TR302, TR303	3	25K	3296W_Vertical Cermet	<a href="https://www.taydaelectronics.com/potentiometer-variable-resistors/cermet-potentiometers/3296w.html">https://www.taydaelectronics.com/potentiometer-variable-resistors/cermet-potentiometers/3296w.html</a>
57 RV401, RV303, RV302, RV201, RV102, RV301, RV304, RV305	9	50K	Alpha_Single_Vertical	Tayda Alpha 9mm PCB mount
58 RV402	1	250K	Alpha_Single_Vertical	" "
59 RV202	1	1MEG	Alpha_Single_Vertical	" "
60 RV203	1	Dual 100K	Alpha_Dual_Vertical	<a href="https://www.taydaelectronics.com/100k-ohm-linear-dual-taper-potentiometer-round-shaft-pcb-9mm.html">https://www.taydaelectronics.com/100k-ohm-linear-dual-taper-potentiometer-round-shaft-pcb-9mm.html</a>

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SWITCHES					
61	SW202, SW301	2	DPDT	submini_DPDT	LoveMySwitches or synthCube
62	SW101	1	SPDT	submini_SPDT	" "
63	SW401	1	SPDT CENTER OFF	submini_SPDT	" "
64	SW302, SW201	2	On-On-On Type 2	submini_DPDT	<a href="https://lovenyswitches.com/aiway-sub-mini-dpdt-on-on-on-switch-pcb-mount-short-shaft/">https://lovenyswitches.com/aiway-sub-mini-dpdt-on-on-on-switch-pcb-mount-short-shaft/</a>
65	SW102	1	1P 12T rotary	off board rotary switch	<a href="https://synthcube.com/cart/26mm-enclosed-1p2-12t">https://synthcube.com/cart/26mm-enclosed-1p2-12t</a>

MISC					
Designator	Quantity	Designation	Package	Supplier and ref	
66	Y101	1	32.768KHZ	Crystal	<a href="https://www.digikey.com/en/products/detail/ratron-electronics/R38-32-768-12-5/10272616">https://www.digikey.com/en/products/detail/ratron-electronics/R38-32-768-12-5/10272616</a>
67	B101, B102, B201, B202, B203, B204, B205, B206, B301, B302, B303, B304, B401, B402, B403	15	BANANA_JACK	Banana Jack – recommend 8 Black and 7 Blue	
68	J101	1	4 Pin .176	Power_Header	Tayda
69		59	pins	pin header MALE	Tayda
70		59	pins	pin header FEMALE	Tayda
71		1	off board panel mount	BNC connector	<a href="https://www.digikey.com/en/products/detail/amphenol-17/31-221-RFX/100648">https://www.digikey.com/en/products/detail/amphenol-17/31-221-RFX/100648</a>
72		1	off board panel mount	1/8" stereo jack	
73		1		BNC telescopic antenna	<a href="https://www.amazon.com/gp/product/B07NKDN6YK/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&amp;th=1">https://www.amazon.com/gp/product/B07NKDN6YK/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&amp;th=1</a>
74		1		Ferrite core AM antenna	
75		2	large knob		<a href="https://synthcube.com/cart/cream-pointer-black-index-large?search=davies&amp;description=true">https://synthcube.com/cart/cream-pointer-black-index-large?search=davies&amp;description=true</a>
76		11	knob		<a href="https://synthcube.com/cart/fluted-miniature-colored-pointer?search=davies&amp;description=true">https://synthcube.com/cart/fluted-miniature-colored-pointer?search=davies&amp;description=true</a>