

Sheet1

Source:	C:\Users\Pavel\Documents\KiCad\ken_V2\kenn3_V2.kicad_sch				
Date:	5/15/2022 10:31:44 AM				
Tool:	Eeschema (6.0.5)				
General:	C:\Program Files (x86)\KiCad\6.0\bin\scripting\plugins\bom_csv_grouped_by_value.py				
Components:	96				
Individual Components:					
Item	Qty	Reference(s)	Value	LibPart	Footprint
		C1	1u	CAPNP-7,5	C-7,5
		C2	100p	CAPNP-5	C-5
		C3	100p	CAPNP-5	C-5
		C4	100p	CAPNP-5	C-5
		C5	100p	CAPNP-5	C-5
		C6	4n7	CAPNP-5	C-5
		C7	47p	CAPNP-5	C-5
		C8	1u	C5{slash}5.5	C5B5.5
		C9	10n	CAPNP-5	C-5
		C10	3u3	C15{slash}5	C15B5
		C11	1n	CAPNP-5	C-5
		C12	1n	CAPNP-5	C-5
		C13	100u	ELC-5	ES-5
		C14	100u	ELC-5	ES-5
		C15	100u	ELC-5	ES-5
		C16	100u	ELC-5	ES-5
		C17	100u	ELC-5	ES-5
		C18	100n	CAPNP-5	C-5
		C19	100n	CAPNP-5	C-5
		C20	220p	CAPNP-5	C-5
		C21	100u	ELC-5	ES-5
		C22*	4p7 (22p)	CAPNP-5	C-5
		C23	33n	C15{slash}5	C15B5
		D1	1N4148	1N4148	DO35-10
		D2	1N4148	1N4148	DO35-10
		D3	1N4148	1N4148	DO35-10

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	D4	1N4148	1N4148	DO35-10
	D5	8V2	ZENER-DIODEDO35Z10	DO35Z10
	D6	8V2	ZENER-DIODEDO35Z10	DO35Z10
	D7	1N4148	1N4148	DO35-10
	D8	1N4148	1N4148	DO35-10
	D9	1N4148	1N4148	DO35-10
	D10	1N4148	1N4148	DO35-10
	H1	MOUNT-PAD-ROUND3.2	MOUNT-PAD-ROUND3.2	3,2-PAD
	H2	MOUNT-PAD-ROUND3.2	MOUNT-PAD-ROUND3.2	3,2-PAD
	H3	MOUNT-PAD-ROUND3.2	MOUNT-PAD-ROUND3.2	3,2-PAD
	H4	MOUNT-PAD-ROUND3.2	MOUNT-PAD-ROUND3.2	3,2-PAD
	LSP1	MCS08	MCS08	MCS08
	LSP2	MCS08	MCS08	MCS08
	LSP4	MCS08	MCS08	MCS08
	LSP7	MCS08	MCS08	MCS08
	Q1	BC557	BC557	TO92-EBC
	Q2	BC557	BC557	TO92-EBC
	Q3	BC547	BC547	TO92
	Q4	BC557	BC557	TO92-EBC
	Q5	MJE15030	MJE3055	TO220AV
	Q6	MJE15031	MJE2955	TO220AV
	Q7	BC557	BC557	TO92-EBC
	Q8	BC557	BC557	TO92-EBC
	Q9	BD135	BD139	TO126AV
	Q10	BC557	BC557	TO92-EBC
	Q11	BC556	BC556	TO92-EBC
	R1	1M	RESEU-10	R-10
	R2		220 RESEU-10	R-10
	R3	100k	RESEU-10	R-10
	R4		560 RESEU-10	R-10
	R5		100 RESEU-10	R-10
	R6	1k8	RESEU-10	R-10
	R7	1k8	RESEU-10	R-10
	R8	100k	RESEU-10	R-10
	R9		560 RESEU-10	R-10

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	R10	100	RESEU-10	R-10
	R11	3R6	RESEU-10	R-10
	R12	3R6	RESEU-10	R-10
	R13	1k5	RESEU-10	R-10
	R14	0R22	RKH208-8	KH208-8
	R15	0R22	RKH208-8	KH208-8
	R16	100	RESEU-10	R-10
	R17	100	RESEU-10	R-10
	R18	100	RESEU-10	R-10
	R19	100	RESEU-10	R-10
	R20	2k	POT-S	PT-10S
	R21	3k9	RESEU-10	R-10
	R22	5k6	RESEU-10	R-10
	R23	390	RESEU-10	R-10
	R24	390	RESEU-10	R-10
	R25	3k3	RESEU-10	R-10
	R26	10k	RESEU-10	R-10
	R27	220	RESEU-10	R-10
	R28	3k3	RESEU-10	R-10
	R29	100	RESEU-10	R-10
	R30	1k5	RESEU-10	R-10
	R31	220	RESEU-10	R-10
	R32	100	RESEU-10	R-10
	R33	560	RESEU-10	R-10
	R34	47k	RESEU-10	R-10
	R35	27k	RESEU-10	R-10
	R36	10/2W	RESEU-12,5	R-12,5
	R37	47k	RESEU-10	R-10
	T1	MJL21194	-NPN-TO218V	TO218V
	T2	MJL21193	-PNP-TO218V	TO218V
	T3	BC547	-NPN-TO92-EBC	TO92-EBC
	T4	BC547	-NPN-TO92-EBC	TO92-EBC
	T5	BC547	-NPN-TO92-EBC	TO92-EBC
	T6	BC547	-NPN-TO92-EBC	TO92-EBC
	X1	W238-5	W237-05P	W237-5P

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Collated Components:					
Item	Qty	Reference(s)	Value	LibPart	Footprint
1	1	C1	1u	CAPNP-7,5	C-7,5
2	4	C2, C3, C4, C5	100p	CAPNP-5	C-5
3	1	C6	4n7	CAPNP-5	C-5
4	1	C7	47p	CAPNP-5	C-5
5	1	C8	1u	C5{slash}5.5	C5B5.5
6	1	C9	10n	CAPNP-5	C-5
7	1	C10	3u3	C15{slash}5	C15B5
8	2	C11, C12	1n	CAPNP-5	C-5
9	6	C13, C14, C15, C16, C17, C21	100u	ELC-5	ES-5
10	2	C18, C19	100n	CAPNP-5	C-5
11	1	C20	220p	CAPNP-5	C-5
12	1	C22	4p7	CAPNP-5	C-5
13	1	C23	33n	C15{slash}5	C15B5
14	8	D1, D2, D3, D4, D7, D8, D9, D10	1N4148	1N4148	DO35-10
15	2	D5, D6	8V2	ZENER-DIODED035Z10	DO35Z10
16	4	H1, H2, H3, H4	MOUNT-PAD-ROUND3.2	MOUNT-PAD-ROUND3.2	3,2-PAD
17	4	LSP1, LSP2, LSP4, LSP7	MCS08	MCS08	MCS08
18	6	Q1, Q2, Q4, Q7, Q8, Q10	BC557	BC557	TO92-EBC
19	1	Q3	BC547	BC547	TO92
20	1	Q5	MJE15030	MJE3055	TO220AV
21	1	Q6	MJE15031	MJE2955	TO220AV
22	1	Q9	BD135	BD139	TO126AV
23	1	Q11	BC556	BC556	TO92-EBC
24	1	R1	1M	RESEU-10	R-10
25	3	R2, R27, R31		220 RESEU-10	R-10
26	2	R3, R8	100k	RESEU-10	R-10
27	3	R4, R9, R33		560 RESEU-10	R-10
28	8	R5, R10, R16, R17, R18, R19, R29, R32		100 RESEU-10	R-10
29	2	R6, R7	1k8	RESEU-10	R-10

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30	2	R11, R12	3R6	RESEU-10	R-10
31	2	R13, R30	1k5	RESEU-10	R-10
32	2	R14, R15	0R22	RKH208-8	KH208-8
33	1	R20	2k	POT-S	PT-10S
34	1	R21	3k9	RESEU-10	R-10
35	1	R22	5k6	RESEU-10	R-10
36	2	R23, R24	390	RESEU-10	R-10
37	2	R25, R28	3k3	RESEU-10	R-10
38	1	R26	10k	RESEU-10	R-10
39	2	R34, R37	47k	RESEU-10	R-10
40	1	R35	27k	RESEU-10	R-10
41	1	R36	10/2W	RESEU-12,5	R-12,5
42	1	T1	MJL21194	-NPN-TO218V	TO218V
43	1	T2	MJL21193	-PNP-TO218V	TO218V
44	4	T3, T4, T5, T6	BC547	-NPN-TO92-EBC	TO92-EBC
45	1	X1	W238-5	W237-05P	W237-5P