

KrellClone KSA100 MkII BOM
[Mainboard Components only]

Qty	Value	Part Number	Pin Spacing	Comments	Mouser Part Number	Mouser Price (ea)	Extended Digikey Amount Part Number	Digikey Price
2	1N914	D3, D4	12.5mm		512-1N914	0.05 \$	0.10	
2	1N5309	D5, D6	12.5mm	Alt: J509	610-1N5309	4.75 \$	9.50	
2	1N4754A	ZD1, ZD2	12.5mm	0.5W	78-1N4754A	0.07 \$	0.14	
2	BC546 / 2SC2240	Q1, Q2	TO-92		512-BC546	0.11 \$	0.22	
2	BC556 / 2SA970	Q3, Q4	TO-92		512-BC556	0.13 \$	0.26	
2	ZVN2110A	Q5A	TO-92	Choose either of A, B or C sets	522-ZVN2110A	0.84 \$	1.68	
2	ZVP2110A	Q6A	TO-92		522-ZVP2110A	1.11 \$	2.22	
2	IRFD110	Q5B	HD-1		844-IRFD110	1.01		
2	IRFD9110	Q6B	HD-1		obsolete		IRDF9110PBF-ND	1.31
2	ZVN2110G	Q5C	SOT-223	SMD package	522-ZVN2110GTA	1.36		
2	ZVP2110G	Q6C	SOT-223	SMD package	522-ZVP2110GTA	1.63		
1	MJE15030	Q13	TO-220		on order		XXXXXX no stock	
4	MJE15034	Q10, Q12, Q14, Q16	TO-220		863-MJE15034G	1.68 \$	6.72	
4	MJE15035	Q9, Q11, Q15, Q17	TO-220		863-MJE15035G	1.68 \$	6.72	
2	47R5	R30, R35	15mm	0.25W	71-RN60D-F-47.5	0.21 \$	0.42	
4	75R	R38, R39, R40, R41	15mm	0.25W	71-RN60D-F-75	0.21 \$	0.84	
4	150R	R3, R4, R5, R6	15mm	0.25W	71-RN60D-F-150	0.21 \$	0.84	
1	825R	R16	15mm	0.25W	71-RN60D-F-825	0.21 \$	0.21	
		R1, R11, R12, R22, R23, R24, R25, R26, R27, R28, R29, R31, R33	15mm	0.25W [R11, R12: 0.5W]	71-RN60D-F-1.0K	0.21 \$	2.31	
13	1k			R11, R12	71-RN65D-F-1.0K	0.37 \$	0.74	
3	1k5	R32, R34, R36	15mm	0.25W	71-RN60D-F-1.5K	0.21 \$	0.63	
6	4k75	R7, R8, R9, R10, R20, R21	15mm	0.25W	71-RN60D-F-4.75K	0.21 \$	1.26	
1	7k5	R37	15mm	0.25W	71-RN60D-F-7.5K	0.21 \$	0.21	
2	12k1	R13, R14	15mm	0.5W	71-RN65D-F-12.1K	0.37 \$	0.74	
2	20k	R15, R19	15mm	0.25W	71-RN60D-F-20K	0.21 \$	0.42	
3	47k5	R2, R17, R18	15mm	0.25W	71-RN60D-F-47.5k	0.21 \$	0.63	
			Bourns 0.1"					
2	5k	VR1, VR2	inline/offset		652-3296Y-1-502LF	2.2 \$	4.40	
1	680pF	C1	5mm	Polystyrene/Mica	5982-19-500V680	1.42 \$	1.42	
2	62pF	C5, C6	5mm	Polystyrene/Mica	5982-5-300V62J	min 50	SMD only	
2	10uF, 16v	C8, C9	2mm		647-UVZC100MDH1TA	0.08 \$	0.16	
2	1000uF, 16v	C2, C3	5mm		647-UVZ1C102MPD	0.64 \$	1.28	
4	100nF	C4, C7	5/7.5/10mm	MKP, C7 can be 0.1uF - 1uF	505-MKP20.1/100/5	0.65 \$	2.60	
Optional								
2	220uF, 63v	CP1, CP2 CP3, CP4, CP5, CP6, CP7,	5mm		647-UVZ1J221MPH	0.75 \$	1.50	
6	1000uF, 63v	CP8	7.5mm		647-UVZ1J102MHD	1.67 \$	10.02	
2	100nF, 63v	CP9, CP10	5/7.5/10mm	MKP	505-MKP20.1/100/5	0.65 \$	1.30	
2	1uF	CP11, CP12	25mm	Solen, MKP	505-M101/400/10	5.17 \$	10.34	
1	2-pin jumper	J3	2.5mm	Shorts out C4				
2	10k SMT	R_LED1, R_LED2	1206					
2	LED SMT	PWRLED1, PWRLED2	1206	Indicates power on V+/V- rails				
						\$	69.83	