

KrellClone KSA100 MkII BOM

[Mainboard components only]

P Watts 11/2006

Qty	Value	Part Number	Pin Spacing	Comments
2	1N914	D3, D4	12.5mm	
2	1N5309	D5, D6	12.5mm	Alt: J509
2	1N4754A	ZD1, ZD2	12.5mm	0.5W
2	BC546 / 2SC2240	Q1, Q2	TO-92	
2	BC556 / 2SA970	Q3, Q4	TO-92	
2	ZVN2110A	Q5A, Q6A	TO-92	Choose either of A, B or C sets
2	ZVP2110A	Q7A, Q8B	TO-92	
2	IRFD110	Q5B, Q6B	HD-1	
2	IRFD9110	Q7B, Q8B	HD-1	
2	ZVN2110G	Q5C, Q6C	SOT-223	SMD package
2	ZVP2110G	Q7C, Q8C	SOT-223	SMD package
1	MJE15030	Q13	TO-220	or MJE15032/15034
4	MJE15034	Q10, Q12, Q14, Q16	TO-220	
4	MJE15035	Q9, Q11, Q15, Q17	TO-220	
2	47R5	R30, R35	15mm	0.25W
4	75R	R38, R39, R40, R41	15mm	0.25W
4	150R	R3, R4, R5, R6	15mm	0.25W
1	825R	R16	15mm	0.25W
13	1k	R1, R11, R12, R22, R23, R24, R25, R26, R27, R28, R29, R31, R33	15mm	0.25W [R11, R12: 0.5W]
3	1k5	R32, R34, R36	15mm	0.25W
6	4k75	R7, R8, R9, R10, R20, R21	15mm	0.25W
1	7k5	R37	15mm	0.25W
2	12k1	R13, R14	15mm	0.5W
2	20k	R15, R19	15mm	0.25W
3	47k5	R2, R17, R18	15mm	0.25W [R17, R18: 0.5W]
2	5k	VR1, VR2	Bourns 0.1" inline/offset	
1	680pF	C1	5mm/7.5mm/10mm	Polystyrene/Mica/MKP
2	62pF	C5, C6	5/7.5/10mm	Polystyrene/Mica
1	20pF	Cx (parallel to R15)	N/A	Polystyrene/Mica, no pad on PCB provided
2	10uF	C8, C9	2mm	16V
2	1000uF	C2, C3	5mm	16V
4	100nF	C4, C7	5/7.5/10mm	MKP, C7 can be 0.1uF-1uF
1	2-pin terminal	J2	5mm	Power input conn
1	4-pin terminal	J3	5mm	Signal & ground conn

[OPTIONAL]

2	220uF	CP1, CP2	5mm	63V
6	1000uF	CP3, CP4, CP5, CP6, CP7, CP8, CP9, CP10	7.5mm	63V
2	1uF	CP11, CP12, CP13, CP14	25mm	Solen MKP
2	100nF	CP15, CP16, CP17, CP18	5/7.5/10mm	63V MKP
1	2-pin Jumper	J3, J4, J5	2.5mm	J3 Shorts out C4/ separate power rails. J4 & J5 can be replaced by 10-47R resistors for improved front-end filtering
2	10k SMT	RLED1, RLED2	1206	
2	LED SMT	PWRLED1, PWRLED2	1206	Indicates power on V+/V- rails