

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 |
| 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 |