EEZ post-regulator BOM (PCB: r4B44, 2015-10-17)

| | | | | | | | | GBP/EUR ratio: | | 1,36 |
|-----|------------------|---|--|---------|------------|-------|--------------------|----------------|--------|----------|
| | | | | | Farnell TM | | | | | |
| Qty | Value | Note | Parts | Code | Unit price | Total | Code | Unit price | Total | Combined |
| 1 | 120p | | C10 | 1414667 | 0,029 | £0,03 | CL21C121JBANNNP | 0,008 | 0,01€ | |
| 13 | 100n | 0603 | C14, C15, C16, C20, C21, C22, C25, C26, C27, C29, C30, C34, C3 | , | 0,006 | £0,08 | CL10B104KO8NNNC | 0,006 | 0,08€ | |
| 5 | 1u | 25V | C17, C19, C33, C35, C3 | 2320827 | 0,057 | £0,29 | CL21B105KAFNNNG | 0,011 | 0,06€ | 0,06 € |
| 2 | 1n | | C23, C24 | 2407340 | 0,010 | £0,02 | CL21B102KCANNNC | 0,007 | 0,01€ | |
| 2 | 10u | 1206 | C28, C31 | 1759445 | 0,057 | £0,11 | CSMD10U1206X | 0,060 | 0,12 € | 0,12 € |
| 1 | 1u | 1206, 100V | C3 | 2320876 | 0,155 | £0,16 | GRM31CR72A105KA01L | 0,121 | 0,12€ | 0,12 € |
| 1 | 10u | Tantalum, 1206 | C32 | 1457413 | 0,181 | £0,18 | T491A106K010AT | 0,084 | 0,08 € | 0,08 € |
| 1 | 470n | 1812, 100V | C4 | 1828961 | 0,484 | £0,48 | CL43B474KCHNNNE | 0,133 | 0,13 € | |
| 3 | 10n | | C5, C13, C18 | 1759246 | 0,011 | £0,03 | CL31B103KBCNNNC | 0,012 | 0,03€ | 0,03 € |
| 2 | 47p | | C6, C12 | 1414692 | 0,017 | £0,03 | CC0805JRNPO9470 | 0,009 | 0,02€ | 0,02 € |
| 2 | 1n5 | | C7, C11 | 1759232 | 0,009 | £0,02 | CL21B152KBANNNC | 0,007 | 0,01€ | 0,01 € |
| 2 | 2n2 | | C8, C9 | 1759235 | 0,016 | £0,03 | CL21B222KBANNND | 0,007 | 0,01€ | |
| 11 | BAS316 | | D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11 | 8734275 | 0,149 | £1,64 | BAS316 | 0,020 | 0,22€ | 0,22€ |
| 1 | 60R@100MHz | Ferrite bead 60R | FB | 1635704 | 0,033 | £0,03 | LCBA-600 | 0,027 | 0,03€ | |
| 1 | TL072D | | IC1, IC2 | 1467663 | 0,121 | £0,12 | TL072CD | 0,169 | 0,17 € | 0,16 € |
| 1 | OP27GSZ | | IC3 | 9426124 | 2,310 | £2,31 | OP27GSZ | 1,450 | 1,45 € | 1,45 € |
| | Option: OPA227UA | | IC3 | 1212441 | 3,970 | | - | | | 0,00€ |
| 1 | LP339D | | IC4 | 9589686 | 0,318 | £0,32 | LP339D | 0,278 | 0,28 € | 0,28 € |
| 1 | MCP23S08-E/SO | | IC5 | 1332092 | 0,763 | £0,76 | MCP23S08-E/SO | 0,960 | 0,96 € | 0,96 € |
| 1 | DAC8552 | | IC6 | 1329584 | 5,290 | £5,29 | - | | | 7,19 € |
| 1 | REF5025 | | IC7 | 1439622 | 2,590 | £2,59 | - | | | 3,52 € |
| 1 | ADS1120 | | IC8 | 2402249 | 6,260 | £6,26 | - | | | 8,51 € |
| 1 | 826629-4 | 4-pin jumper section (or 2 x zero ohm 0805 resistors) | | 3418303 | 0,324 | £0,32 | 826629-4 | 0,290 | 0,29€ | 0,29 € |
| 1 | IRFP250N | (or IRFP260N) | Q1 | 8649260 | 2,910 | £2,91 | IRFP250NPBF | 1,000 | 1,00 € | 1,00 € |
| 1 | 2N7002 | | Q11 | 1713823 | 0,038 | £0,04 | 2N7002 | 0,034 | 0,03€ | |
| 1 | BSS84P | | Q12 | 1888166 | 0,099 | £0,10 | BSS84P | 0,033 | 0,03€ | 0,03€ |
| 1 | BC857C | | Q2 | 8734771 | 0,022 | £0,02 | BC857C-DIO | 0,020 | 0,02€ | 0,02€ |
| 1 | BC846C | | Q3 | 2453325 | 0,199 | £0,20 | BC846C-DIO | 0,002 | 0,00€ | 0,00€ |
| 2 | BCP56-16.115 | 100V | Q4, Q6 | 1081258 | 0,122 | £0,24 | BCP56-16T1G | 0,099 | 0,20€ | 0,20€ |
| 1 | IRF9640 | | Q5 | 8648654 | 2,010 | £2,01 | IRF9640PBF | 0,750 | 0,75€ | 0,75 € |
| 2 | MMBT5401 | | Q7, Q8 | 1459108 | 0,073 | £0,15 | MMBT5401 | 0,021 | 0,04 € | 0,04 € |
| 2 | MMBT5551 | | Q9, Q10 | 1459109 | 0,153 | £0,31 | MMBT5551 | 0,021 | 0,04 € | 0,04 € |
| 1 | 0R1 | 3W | R1 | 1779304 | 0,236 | £0,24 | KNP03WS-0R1 | 0,125 | 0,12€ | 0,12 € |
| 5 | 220R | | R10, R11, R14, R19, R29 | 1099795 | 0,010 | £0,05 | RC0805FR-07220R | 0,007 | 0,04 € | 0,04 € |
| 2 | 470R | | R12, R24 | 1099798 | 0,012 | £0,02 | RC0805FR-07470R | 0,007 | 0,01€ | 0,01 € |

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| 4 | 100D | | D45 | 4000700 | 0.004 | 00.00 | DC00055D 07400D | 0.007 | 0.04.0 | 0.04.6 |
|-------|-------------------|--------------------------------------|---|--------------------|-------|--------|--------------------|-------|--------|---------|
| 1 | 100R | 0.1% | R15 | 1099793 1160194 | 0,024 | £0,02 | RC0805FR-07100R | 0,007 | 0,01€ | 0,01€ |
| 2 | 7K5 | 0.1% | R16, R26 | | 0,214 | £0,43 | RN73C2A7K5BTDF | 0,493 | 0,99€ | 0,58€ |
| 9 | 10K | | R17, R23, R25, R33, R46, R50, R51, R59, R63 | | 0,009 | £0,08 | RC0805FR-0710K | 0,006 | 0,05€ | 0,05€ |
| 1 | 560R | | R18 | 9333363 | 0,014 | £0,01 | RC0805FR-07560R | 0,007 | 0,01€ | 0,01 € |
| 1 | 2R2/2W | 0411/3V | R2 | 1565455 | 0,473 | £0,47 | PR02-2R2 | 0,063 | 0,06 € | 0,06 € |
| 2 | 130K | 0.1% | R20, R30 | 1576028 | 0,118 | £0,24 | - | | | 0,32 € |
| 2 | 20K | 0.1% | R21, R31 | 1575937 | 0,058 | £0,12 | TC0525B2002T1E | 0,110 | 0,22€ | 0,16 € |
| 1 | 51K | | R22 | 1653018 | 0,021 | £0,02 | RC0805FR-0751K | 0,007 | 0,01€ | 0,01€ |
| 1 | 1K8 | | R27 | 2447595 | 0,002 | £0,00 | SMD0805-1K8-1% | 0,008 | 0,01€ | 0,00€ |
| 1 | 0R | (added for testing purposes) | R28 | 9233750 | 0,010 | £0,01 | SMD0805-0R | 0,059 | 0,06€ | 0,01€ |
| 6 | 2K2 | | R3, R5, R6, R36, R39, R56 | 1099803 | 0,024 | £0,14 | RC0805FR-072K2 | 0,007 | 0,04 € | 0,04 € |
| 2 | 180R | 0.1% | R33, R43 | 2483961 | 0,204 | £0,41 | - | | | 0,55€ |
| 2 | 3K9 | 0.1% | R35, R43 | 2483997 | 0,204 | £0,41 | - | | | 0,55€ |
| 4 | 51R | 0.1% | R37, R38, R41, R42 | 2484003 | 0,204 | £0,82 | - | | | 1,11€ |
| 2 | 1K | | R4, R13 | 1099800 | 0,024 | £0,05 | RC0805FR-071K | 0,007 | 0,01€ | 0,01€ |
| 1 | R020 | 1W, 2512 | R40 | 2079436 | 0,300 | £0,30 | WW25NR020FTL | 0,189 | 0,19€ | 0,19€ |
| | Option: 2 x R040 | Soldered one on top of another | R40A | 2079425 | 0,183 | | LR2512-R04FW | 1,840 | | 0,00€ |
| 1 | 11K | | R45 | 9332456 | 0,016 | £0,02 | CRCW080511K0FKTABC | 0,008 | 0,01€ | 0,01€ |
| 2 | 100K | | R48, R49 | 1887334 | 0,017 | £0,03 | SMD0805-100K-1% | 0,008 | 0,02€ | 0,02€ |
| 1 | 3K9 | | R53 | 9333169 | 0,016 | £0,02 | RC0805FR-073K9 | 0,007 | 0,01€ | 0,01€ |
| 2 | 5K1 | | R53, R60 | 9333320 | 0,016 | £0,03 | RC0805FR-075K1 | 0,007 | 0,01€ | 0,01€ |
| 1 | 47K | | R54, R61 | 2447664 | 0,002 | £0,00 | RC0805FR-0747K | 0,007 | 0,01€ | 0,00€ |
| 2 | 5K6 | | R55, R62 | 2447693 | 0,002 | £0,00 | RC0805FR-075K6 | 0,007 | 0,01€ | 0,01€ |
| 1 | 12K | | R61 | 2447563 | 0,002 | £0,00 | RC0805FR-0712K | 0,007 | 0,01€ | 0,00€ |
| 1 | 10R | | R64 | 2380677 | 0,111 | £0,11 | RC0805FR-0710R | 0,007 | 0,01€ | 0,01€ |
| 1 | 16K | | R8 | 9332677 | 0,016 | £0,02 | SMD0805-16K-1% | 0,008 | 0,01€ | 0,01€ |
| 2 | 2K | | R9, R32 | 2447622 | 0,002 | £0,00 | RC0805FR-072K | 0,007 | 0,01€ | 0,01€ |
| 1 | 282836-4 | Terminal block 4-way, 1.5mm2, 5mm | X1 | 1793677 | 0,504 | £0,50 | 282836-4 | 0,640 | 0,64 € | 0,64 € |
| 1 | TSW-109-08-L-D-RA | | X2 | 2032801 | 1,190 | £1,19 | - | | | 1,62€ |
| 2 | 0R | Used as jumpers | X3 | 9233750 | 0,010 | £0,02 | SMD0805-0R | 0,059 | 0,12€ | 0,03€ |
| 1 | 09185106324 | 10-pin IDC socket | X7 | 1106832 | 1,020 | £1,02 | 09185106324 | 0,820 | 0,82 € | 0,82€ |
| 1 | 13V (or 15V) | MiniMELF | ZD1 | 1621844 | 0,047 | £0,05 | ZMM13-DIO | 0,020 | 0,02€ | 0,02€ |
| 1 | 6V2 (| MiniMELF | ZD3 | 1469416 | 0,032 | £0,03 | ZMD6.2-DIO | 0,078 | 0,08€ | 0,04€ |
| | | | | | | £33,98 | | | 9,82 € | 32,54 € |
| Optio | | exists on Arduino shie | | | | | | | | |
| 1 | EEUFC1J220 | 22u, 63V | C1 | 9692495 | 0,221 | £0,22 | EEUFC1J220 | 0,075 | 0,08 € | 0,08€ |

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| 1 | 470n | 1812, 100V | C2 | 1828961 | 0,484 | £0,48 | CL43B474KCHNNNE | 0,133 | 0,13€ | 0,13€ | |
|-------|--|-------------------------|----------|---------|------------|--------|-----------------|--------|---------|---------|--|
| 2 | 2N7002 | | Q13, Q14 | 1713823 | 0,038 | £0,08 | 2N7002 | 0,034 | 0,07€ | 0,07€ | |
| 2 | 240R | | R57, R58 | 9332871 | 0,016 | £0,03 | RC0805FR-07240R | 0,007 | 0,01€ | 0,01€ | |
| 1 | 1R | | R7 | 2141629 | 0,016 | £0,02 | RC0805FR-071R | 0,008 | 0,01€ | 0,01€ | |
| 2 | 22-23-2031 | 3-pin 0.1" socket | X6, X8 | 1462950 | 0,062 | £0,12 | MX-22-23-2031 | 0,070 | 0,14 € | 0,14 € | |
| 1 | P6SMB68A | | ZD2 | 1459166 | 0,152 | £0,15 | P6SMB68A-LF | 0,170 | 0,17 € | 0,17€ | |
| | | | | | | £1,10 | | | 0,61 € | 0,61 € | |
| Optio | Optional (components for manual control) | | | | | | | | | | |
| 2 | 50K multiturn potentiometer | | - | 1689933 | 10,49 | £20,98 | POT2218P-50K | 3,780 | 7,56 € | 7,56 € | |
| 2 | 240R | | R47, R52 | 9332871 | 0,016 | £0,03 | RC0805FR-07240R | 0,007 | 0,01€ | 0,01€ | |
| 1 | TSW-104-08-L-D | 2x4-pin 0.1" header | X3 | 2025630 | 0,490 | £0,49 | ZL202-8G | 0,064 | 0,06€ | 0,06€ | |
| 1 | 22-23-2041 | 4-pin 0.1" socket | X4 | 1462920 | 0,131 | £0,13 | MX-22-23-2041 | 0,100 | 0,10€ | 0,10€ | |
| 1 | 22-23-2031 | 3-pin 0.1" socket | X5 | 1462950 | 0,062 | £0,06 | MX-22-23-2031 | 0,070 | 0,07 € | 0,07 € | |
| 0.001 | | 0001484 | | | | | | | | | |
| | / option (CV gain: 0.0 | | D00 D00 | 4050040 | 0.004 | 00.40 | DNIZOOOAZEKETEE | 0.404 | 0.00.6 | 0.00.6 | |
| 2 | 75K | 0.1% | R20, R29 | 1653312 | 0,081 | £0,16 | RN73C2A75KBTDF | 0,481 | 0,96 € | 0,22€ | |
| 2 | 15K | 0.1% | R21, R30 | 2112886 | 0,108 | £0,22 | TC0525B1502T1E | 0,108 | 0,22 € | 0,22€ | |
| 0-40\ | 0-40V option (CV gain: 0.0625V/V) | | | | | | | | | | |
| 2 | 100K | 0.1% | R20, R29 | 2483949 | 0,204 | £0,41 | RN73C2A100KBTDF | 0,481 | 0,96 € | 0,55€ | |
| 0.54 | | 70.0 | | | | | | | | | |
| | option (CC gain: 25V | | D04 D40 | 4575004 | 0.0500 | 00.44 | | | | 0.45.6 | |
| 2 | 2K37 | 0.1% | R34, R42 | 1575834 | 0,0536 | £0,11 | - | | | 0,15€ | |
| Heats | sink (not required if r | nosfet pre-regulator is | used) | | | | | | | | |
| 1 | • • | 23/100 (78x100x35mm) | • | _ | | | RAD-A5723/100 | 2,140 | 2,14 € | 2,14 € | |
| 2 | | 23/40 (78x40x35mm) for | | - | | | RAD-A5723/40 | 1,070 | 2,14 € | 2,14 € | |
| 1 | Option 3: SK 100/100 SA (66x100x40mm) for two channels | | | 4621839 | 7,510 | £7,51 | - | ., | _, | 10,21 € | |
| 2 | | SA (66x50x40mm) for s | | 4621608 | 4,660 | £9,32 | SK100-50SA | 5,240 | 10,48 € | 10,48 € | |
| | • | , | • | | | | | | | | |
| Othe | | channels with pre-regu | llators) | | | | | | | | |
| 8 | Metal spacer 7mm | | | 1466775 | 0,272 | £2,18 | - | | | 2,96 € | |
| 8 | Metal spacer 50mm | | | 1466737 | 0,649 | £5,19 | TFM-M3X50/DR213 | 0,298 | 2,38 € | 2,38 € | |
| 4 | Insulating bushing T | - | | | IB-6 | 0,049 | 0,20 € | 0,20 € | | | |
| 4 | Insulating kit, mica T | 520214 | 0,156 | £0,62 | MICA-TO220 | 0,043 | 0,17 € | 0,17 € | | | |
| 2 | Insulating kit, mica S | | | 520238 | 0,202 | £0,40 | MICA-SOT93 | 0,078 | 0,16 € | 0,16 € | |
| 1 | Heat transferring pas | - | | | HTC10S | 5,110 | 5,11 € | 5,11 € | | | |