

EEZ DIB DCM220 BOM (r2B3, 2019-09-21)
Project source code at <https://github.com/eez-open/modular-psu>

| # | Farnell / Element14 | | | | | | | | | | Digi-Key | | | Mouser | | |
|----|---------------------|-------------|------------------|-----------------------------------|---------|----------------------|-----------------|-----|--|--|----------------|-----------------|-----|-----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | | | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 1 | 7 | 10n/200V | 1206 | C1, C2, C3, C50, C57, C73, C80 | 2812560 | 885342207005 | 0.078 | 5 | | | 311-4491-1-ND | 0.150 | 10 | 603-C1206KRX7RAB B103 | 0.129 | 10 |
| 2 | 1 | 330p | C0G, 0805 | C11 | 1414686 | C0805C331J5GAC TU | 0.054 | 10 | | | 1276-1189-1-ND | 0.049 | 10 | 80-C0805C331J5G | 0.036 | 10 |
| 3 | 2 | 22u | 1206 | C12, C13 | 2112754 | MC1206X226M100 CT | 0.616 | 5 | | | 1276-1287-1-ND | 0.265 | 10 | 963-LMK316ABJ226 ML-T | 0.155 | 10 |
| 4 | 7 | 10n | 0805 | C15, C19, C23, C34, C35, C66, C86 | 2896555 | VJ0805Y103JXXP W1BC | 0.065 | 10 | | | 490-7194-1-ND | 0.017 | 10 | 710-885012207122 | 0.036 | 10 |
| 5 | 1 | 18p | C0G, 0603 | C16 | 2896373 | VJ0603A180JXAC W1BC | 0.016 | 10 | | | 1276-1089-1-ND | 0.048 | 10 | 80-C0603C180J5G7 867 | 0.023 | 10 |
| 6 | 6 | 1u | 0805 | C22, C38, C53, C57, C73, C77 | 2896566 | VJ0805Y105KXXT W1BC | 0.084 | 5 | | | 587-1283-1-ND | 0.090 | 10 | 603-CC805MKX7R7B B105 | 0.062 | 10 |
| 7 | 2 | 4p7 | C0G, 0603 | C32, C33 | 2627469 | MC0603N4R7C500 CT | 0.329 | 10 | | | 311-1740-1-ND | 0.054 | 10 | 710-885012006049 | 0.072 | 10 |
| 8 | 1 | 1n | 0805 | C36 | 2896470 | VJ0805A102JXAC W1BC | 0.044 | 10 | | | 732-7858-1-ND | 0.055 | 10 | 710-885012007040 | 0.052 | 10 |
| 9 | 7 | 4n7 | C0G, 0805 | C39, C41, C42, C43, C44, C67, C87 | 1828942 | GRM2165C1H472J A01D | 0.184 | 10 | | | 732-12255-1-ND | 0.162 | 10 | 810-C2012C0G1H47 2J-1 | 0.072 | 10 |
| 10 | 6 | 4u7 | 1206 | C4, C5, C14, C29, C49, C70 | 1907356 | C3216X7R1E475K 160AC | 0.240 | 5 | | | 1276-2970-1-ND | 0.199 | 10 | 963-EMK316B7475M L-T | 0.129 | 10 |
| 11 | 2 | EEEFK1H470 | Ø8mm, low ESR | C46, C68 | 9695931 | EEEFK1H470P | 0.419 | 1 | | | PCE3815CT-ND | 0.590 | 1 | 667-EEE-FK1H470P | 0.524 | 1 |
| 12 | 2 | 100p | C0G, 0805 | C48, C69 | 2896861 | C0805C101JAGAC TU | 0.023 | 10 | | | 399-15000-1-ND | 0.019 | 10 | 80-C0805C101K5G | 0.032 | 10 |
| 13 | 4 | 10u | 1210, 50V | C50, C52, C71, C72 | 2672214 | GRT31CR61H106 KE01L | 0.684 | 5 | | | 1276-6736-1-ND | 0.184 | 10 | 810-C3216X7R1HK1 60AC | 0.597 | 10 |
| 14 | 2 | 220n | 0805 | C54, C74 | 2320828 | MC0805B224J250 CT | 0.087 | 5 | | | 1276-6477-1-ND | 0.520 | 10 | 963-EMK212B7224K G-T | 0.059 | 10 |
| 15 | 6 | 22u | 1210, 25V | C55, C59, C60, C75, C79, C80 | 2320935 | MC1210X226K250 CT | 1.490 | 1 | | | 1276-3373-1-ND | 0.369 | 10 | 603-CC121KKX7R8B B226 | 0.777 | 10 |
| 16 | 3 | 2u2 | 1206, 50V | C6, C9, C21 | | | | | | | 1276-2723-1-ND | 0.132 | 10 | 80-C1206C225M5R ECLR | 0.106 | 10 |
| 17 | 2 | EEEFK1V470P | ECAPSMD8.3MM/HA0 | C61, C81 | 9695850 | EEEFK1V470P | 0.368 | 1 | | | PCE3842CT-ND | 0.460 | 1 | 667-EEE-FK1V470P | 0.445 | 1 |
| 18 | 2 | UVZ1E102MPD | THT; Ø10mm: RM5 | C62, C82 | 9451226 | MCGPR25V108M1 0X21 | 0.388 | 1 | | | 93-1305-ND | 0.500 | 1 | UVZ1E102MPD1 CM | 0.376 | 1 |
| 19 | 2 | 470p | 0805 | C64, C84 | 1759217 | MC0805N471J500 CT | 0.061 | 10 | | | 732-7837-1-ND | 0.059 | 10 | 710-885012007038 | 0.056 | 10 |
| 20 | 2 | 33n | 0805 | C65, C85 | 2627479 | MC0805B333K250 CT | 0.046 | 10 | | | 1276-1796-1-ND | 0.057 | 10 | 710-885012207069 | 0.036 | 10 |

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|-------------|----------|-------------------------|-----------------|-----|------------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 1 | 7 | 10n/200V | 669-8647 | CC1206KRX7R ABB103 | 0.128 | 25 | VJ1206Y103KXCTW1 BC | 0.019 | 100 | | 7 | TME | 0.019 € | 7 | 0.133 |
| 2 | 1 | 330p | 176-3198 | 0805N331J500C T | 0.037 | 200 | CL21C331JBANNNC | 0.029 | 100 | | 1 | TME | 0.029 € | 1 | 0.029 |
| 3 | 2 | 22u | 172-1532 | LMK316ABJ226 KL | 0.095 | 50 | CL31A226MOCLNNC | 0.083 | 100 | | 2 | TME | 0.083 € | 2 | 0.166 |
| 4 | 7 | 10n | 464-6672 | 08055C103KAT 2A | 0.026 | 50 | CC0805KRX7R9103 | 0.027 | 100 | | 7 | Digikey | 0.017 € | 7 | 0.119 |
| 5 | 1 | 18p | 147-415 | C0603C180J5G ACTU | 0.032 | 50 | CL10C180JB8NNNC | 0.015 | 100 | | 1 | TME | 0.015 € | 1 | 0.015 |
| 6 | 6 | 1u | 451-5770 | C0805C105K4R ACTU | 0.028 | 25 | CL21B105KOFNNNE | 0.010 | 100 | | 6 | TME | 0.010 € | 6 | 0.062 |
| 7 | 2 | 4p7 | 298-9315 | C0603C479C5G ACTU | 0.024 | 25 | CL10C4R7CB8NNNC | 0.024 | 100 | | 2 | RS | 0.024 € | 2 | 0.048 |
| 8 | 1 | 1n | 723-6408 | GRM2195C1H1 02JA01D | 0.031 | 100 | CL21C102JBCNNNC | 0.026 | 100 | | 1 | TME | 0.026 € | 1 | 0.026 |
| 9 | 7 | 4n7 | 741-4529 | C2012C0G1H47 2J060AA | 0.056 | 100 | GRM2165C1H472JA0 1D | 0.021 | 100 | | 7 | TME | 0.021 € | 7 | 0.147 |
| 10 | 6 | 4u7 | 691-1221 | C1206C475K3R ACTU | 0.232 | 25 | GCM31CR71E475KA5 5L | 0.381 | 10 | | 6 | Mouser | 0.129 € | 6 | 0.774 |
| 11 | 2 | EEEFK1H470 | 537-0590 | EEEFK1H470P | 0.510 | 5 | EEEFK1H470P | 0.183 | 5 | | 2 | TME | 0.183 € | 2 | 0.366 |
| 12 | 2 | 100p | 461-3997 | CC0805JRNPO9 BN101 | 0.030 | 50 | CL21C101JBANNNC | 0.026 | 100 | | 2 | Digikey | 0.019 € | 2 | 0.038 |
| 13 | 4 | 10u | 103-4163 | UMK316BBJ106 KL-T | 0.236 | 20 | CL31A106KBHNNNE | 0.546 | 10 | | 4 | Digikey | 0.184 € | 4 | 0.736 |
| 14 | 2 | 220n | 103-4126 | UMK212B7224K G-T | 0.039 | 50 | CL21B224KAFNNNE | 0.022 | 100 | | 2 | TME | 0.022 € | 2 | 0.044 |
| 15 | 6 | 22u | 766-1182 | CL32A226KAJN NNE | 0.343 | 10 | CL32A226KAJNNNE | 0.158 | 10 | | 6 | TME | 0.158 € | 6 | 0.948 |
| 16 | 3 | 2u2 | 184-3509 | UMK316B7225K LHT | 0.151 | 10 | CL31B225KBHNNNE | 0.029 | 50 | | 3 | TME | 0.029 € | 3 | 0.086 |
| 17 | 2 | EEEFK1V470P | 537-0657 | EEEFK1V470P | 0.422 | 1 | EEEFK1V470P | 0.130 | 5 | | 2 | TME | 0.130 € | 2 | 0.260 |
| 18 | 2 | UVZ1E102MPD | 845-4685 | UVZ1E102MPD | 0.353 | 25 | UVZ1E102MPD | 0.250 | | 2 | | TME | 0.250 € | 2 | 0.500 |
| 19 | 2 | 470p | 378-700 | 0805CG471J9B B | 0.040 | 25 | CC0805JRNPO9BN47 1 | 0.024 | 100 | | 2 | TME | 0.024 € | 2 | 0.048 |
| 20 | 2 | 33n | 135-6639 | 08051C333KAT 2A | 0.021 | 100 | CC0805KRX7R9333 | 0.016 | 100 | | 2 | TME | 0.016 € | 2 | 0.032 |

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|----|---------------------|------------------|--------------------------------|---|---------|--------------------|-----------------|-----|--|---------------------|-----------------|-----|---------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 21 | 17 | 100n | 0603 | C7, C8, C10, C17, C18, C20, C24, C26, C27, C28, C30, C31, C37, C40, C45, C47, C51 | 2522597 | C0603C104K4RAC7081 | 0.011 | 10 | | 490-4774-1-ND | 0.029 | 100 | 80-C0603C104M4R | 0.007 | 100 |
| 22 | 2 | SKL16 | SOD-123 | D1, D2 | 2673070 | RB160MM-60TR | 0.282 | 5 | | RB160MM-60CT-ND | 0.264 | 10 | 755-RB160MM-60TR | 0.233 | 10 |
| 23 | 4 | BAW56L | SOT-23 | D3, D4, D6, D7 | 2535688 | BAW56LT1G | 0.094 | 5 | | BAW56LT3GOSCT-ND | 0.083 | 10 | 863-BAW56LT1G | 0.078 | 10 |
| 24 | 1 | BLM18AG102SH1D | 0603 | FB1 | 1669708 | MMZ1608Y102B | 0.072 | 10 | | 490-7809-1-ND | 0.052 | 50 | 81-BLM18AG102SH1D | 0.063 | 10 |
| 25 | 1 | Si8662AB-B-IS1 | SOIC-16 | IC1 | 2423351 | SI8662AB-B-IS1 | 1.850 | 1 | | SI8662AB-B-IS1-ND | 1.920 | 1 | 634-SI8662AB-B-IS1 | 1.760 | 1 |
| 26 | 1 | MC33272ADR2G | SOIC-8 | IC10 | 2531389 | MC33272ADR2G | 0.854 | 1 | | MC33272ADR2GOSCT-ND | 0.910 | 1 | 863-MC33272ADR2G | 0.865 | 1 |
| 27 | 2 | LT3763EFE#PBF | TSSOP-28 | IC11, IC13 | - | | | | | LT3763EFE#PBF-ND | 4.950 | 1 | 584-LT3763EFE#PBF | 4.830 | 1 |
| 28 | 1 | MC33274ADR2G | SOIC-16 | IC12 | 2531387 | MC33274ADR2G | 1.010 | 1 | | MC33274ADR2GOSCT-ND | 1.190 | 1 | 863-MC33274ADR2G | 1.020 | 1 |
| 29 | 1 | TPS54060DGQ | MSOP-10 | IC2 | 1710820 | TPS54060DGQ . | 3.030 | 1 | | 296-37148-1-ND | 2.630 | 1 | 595-TPS54060DGQR | 2.490 | 1 |
| 30 | 1 | Si8641AB-B-IS1 | SOIC-16 | IC3 | 2423288 | SI8641AB-B-IS1 | 1.460 | 1 | | SI8641AB-B-IS1-ND | 1.530 | 1 | 634-SI8641AB-B-IS1 | 1.410 | 1 |
| 31 | 1 | M24C32-WMN6P | SOIC-8 | IC4 | 1224413 | M24C32-WMN6P | 0.212 | 5 | | - | | | 511-M24C32-WMN6P | 0.210 | 1 |
| 32 | 1 | LP2985-33DBVR | SOT-23-5 | IC5 | 1053660 | LP2985A-33DBVTE4 . | 0.610 | 1 | | 296-18476-1-ND | 0.540 | 1 | 595-LP2985-33DBVR | 0.507 | 1 |
| 33 | 1 | 74HC2G04GW,125 | | IC6 | 2777732 | 74HC2G04GW,125 | 0.283 | 5 | | 1727-6045-1-ND | 0.274 | 10 | 771-HC2G04GW125 | 0.248 | 10 |
| 34 | 1 | STM32F373C8T6 | LQFP-48 | IC8 | 2333274 | STM32F373C8T6 | 4.420 | 1 | | 497-13306-ND | 3.940 | 1 | 511-STM32F373C8T6 | 3.840 | 1 |
| 35 | 1 | TL431B | SOT-23 | IC9 | 2095470 | TL431BCDBZR | 0.310 | 5 | | 296-18866-1-ND | 0.305 | 10 | 771-TL431BIDBZR215 | 0.259 | 10 |
| 36 | 1 | 4907 | THT, PCB terminal; 4.8mm | J1 | - | | | | | 36-4907-ND | 0.260 | 1 | 534-4907 | 0.257 | 1 |
| 37 | 2 | 571-0500 | THT, Ø4 mm terminal; red | J2, J4 | 1101127 | 571-0500-01 | 1.720 | 5 | | - | | | 164-6219 | 2.040 | 1 |
| 38 | 2 | 571-0100 | THT, Ø4 mm terminal; black | J3, J5 | 1101128 | 571-0100-01 | 1.740 | 5 | | - | | | 164-6218 | 1.840 | 1 |
| 39 | 1 | RN112-4-02-0M7 | THT, Current-compensated Choke | L1 | - | | | | | 817-2100-ND | 1.560 | 1 | 631-RN112-4-02-0M7 | 1.400 | 1 |
| 40 | 2 | 125CDMCCDS-330MC | Power inductor | L2, L4 | 2211631 | 7443551331 | 3.930 | 1 | | 308-2568-1-ND | 1.510 | 1 | 851-125CDMCCDS330MC | 1.590 | 1 |
| 41 | 2 | HPI0630-3R3 | Power inductor | L3, L5 | 1741325 | IHLP2020CZER3R3M11 | 1.940 | 5 | | 445-180834-1-ND | 0.510 | 1 | 810-VLS6045AF-3R3N | 0.510 | 1 |
| 42 | 2 | WP42WUM/EGW | THT, dual (green/red) 3 mm LED | LED1, LED2 | - | | | | | 754-1718-ND | 0.930 | 1 | 604-WP42WUM/EGW | 0.926 | 1 |
| 43 | 2 | NTCS0805E3103JMT | NTC 0805 | NTC1, NTC2 | 2103177 | NTCS0805E3103JMT | 0.399 | 10 | | BC2292CT-ND | 0.490 | 1 | 594-2381-615-53103 | 0.353 | 10 |

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|------------------|----------|----------------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 21 | 17 | 100n | 393-6952 | VJ0603Y104KXJ AT | 0.069 | 25 | CL10B104KA8NNNC | 0.098 | 100 | | 17 | Mouser | 0.007 € | 17 | 0.119 |
| 22 | 2 | SKL16 | 124-6774 | RB160MM-60TR | 0.230 | 40 | SKL16-DIO | 0.105 | 5 | | 2 | TME | 0.105 € | 2 | 0.210 |
| 23 | 4 | BAW56L | 781-3939 | BAW56LT3G | 0.029 | 200 | BAW56LT1G | 0.013 | 100 | | 4 | TME | 0.013 € | 4 | 0.051 |
| 24 | 1 | BLM18AG102SH1D | 839-0803 | BLM18AG102S H1D | 0.043 | 100 | BLM18AG102SH1D | 0.016 | 50 | | 1 | TME | 0.016 € | 1 | 0.016 |
| 25 | 1 | Si8662AB-B-IS1 | 823-2062 | Si8662AB-B-IS1 | 1.870 | 5 | - | | | | 1 | Mouser | 1.760 € | 1 | 1.760 |
| 26 | 1 | MC33272ADR2G | 773-7778 | MC33272ADR2 G | 0.865 | 1 | MC33272ADR2G | 0.570 | 1 | | 1 | TME | 0.570 € | 1 | 0.570 |
| 27 | 2 | LT3763EFE#PBF | - | | | | | | | | 2 | Mouser | 4.830 € | 2 | 9.660 |
| 28 | 1 | MC33274ADR2G | 773-7787 | MC33274ADR2 G | 1.010 | 2 | MC33274ADR2G | 0.740 | 1 | | 1 | TME | 0.740 € | 1 | 0.740 |
| 29 | 1 | TPS54060DGQ | 698-9079 | TPS54060DGQ | 2.680 | 1 | - | | | | 1 | Mouser | 2.490 € | 1 | 2.490 |
| 30 | 1 | Si8641AB-B-IS1 | 823-2000 | Si8641AB-B-IS1 | 1.496 | 5 | - | | | | 1 | Mouser | 1.410 € | 1 | 1.410 |
| 31 | 1 | M24C32-WMN6P | 686-2453 | M24C32- WMN6P | 0.180 | 25 | M24C32-WMN6P | 0.165 | 3 | | 1 | TME | 0.165 € | 1 | 0.165 |
| 32 | 1 | LP2985-33DBVR | 660-6733 | LP2985-33DBVT | 0.737 | 1 | LP2985-33DBVR | 0.362 | 1 | | 1 | TME | 0.362 € | 1 | 0.362 |
| 33 | 1 | 74HC2G04GW,125 | 153-2919 | 74HC2G04GW,1 25 | 0.235 | 50 | 74HC2G04GW.125 | 0.138 | 5 | | | | | | |
| 34 | 1 | STM32F373C8T6 | 795-9164 | STM32F373C8T 6 | 2.060 | 1 | - | | | | 1 | RS | 2.060 € | 1 | 2.060 |
| 35 | 1 | TL431B | 688-9323 | TL431BCDR2G | 0.120 | 2 | TL431BIDBZT | 0.492 | 5 | | | | | | |
| 36 | 1 | 4907 | - | | | | 61-1537-11/0031 | 0.049 | 10 | 1 | | TME | 0.049 € | 1 | 0.049 |
| 37 | 2 | 571-0500 | 103-6511 | 571-0500 | 1.216 | 5 | 571-0500 | 0.620 | 3 | 2 | | TME | 0.620 € | 2 | 1.240 |
| 38 | 2 | 571-0100 | 103-6527 | 571-0100 | 1.334 | 5 | 571-0100 | 0.620 | 3 | 2 | | TME | 0.620 € | 2 | 1.240 |
| 39 | 1 | RN112-4-02-0M7 | - | | | | - | | | 1 | | Mouser | 1.400 € | 1 | 1.400 |
| 40 | 2 | 125CDMCCDS-330MC | - | | | | - | | | | 2 | Digikey | 1.510 € | 2 | 3.020 |
| 41 | 2 | HPI0630-3R3 | - | | | | HPI0630-3R3 | 0.335 | 1 | | 2 | TME | 0.335 € | 2 | 0.670 |
| 42 | 2 | WP42WUM/EGW | - | | | | L-42WUM/1EGWT | 0.501 | 1 | 2 | | TME | 0.501 € | 2 | 1.002 |
| 43 | 2 | NTCS0805E3103JMT | 179-3950 | NTCS0805E310 3JMT | 0.250 | 250 | NTCS0805E3103JMT | 0.113 | 15 | | 2 | TME | 0.113 € | 2 | 0.226 |

| # | Farnell / Element14 | | | | | | | | Digi-Key | | | Mouser | | |
|----|---------------------|-------------------|---------|--|-----------|-------------------|-----------------|-----|------------------------|-----------------|-----|----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 44 | 2 | BSP716NH6327XTSA1 | SOT-223 | Q1, Q6 | 2803380 | BSP716NH6327XTSA1 | 0.378 | 5 | BSP716NH6327XTSA1CT-ND | 0.372 | 10 | 726-BSP716NH6327XTSA | 0.333 | 10 |
| 45 | 4 | NTD5867NLT4G | DPAK | Q2, Q3, Q7, Q8 | 1879964 | NTD5867NLT4G | 0.493 | 10 | NTD5867NLT4GOSCT-ND | 0.458 | 10 | 863-NTD5867NLT4G | 0.430 | 10 |
| 46 | 2 | BSS205NH6327XTSA1 | SOT-23 | Q4, Q9 | 2480648 | BSS205NH6327XTSA1 | 0.257 | 5 | BSS205NH6327XTSA1CT-ND | 0.274 | 10 | BSS205NH6327XTSA1 | 0.236 | 10 |
| 47 | 2 | BSS84P | SOT-23 | Q5, Q10 | 1056526 | BSS84PH6327XTSA2 | 0.224 | 5 | BSS84PH6433XTMA1CT-ND | 0.314 | 10 | 726-BSS84PH6327XTSA2 | 0.196 | 10 |
| 48 | 14 | 10K | 0805 | R10, R11, R12, R13, R14, R15, R16, R17, R18, R20, R31, R34, R57, R60 | 9237755 | RC0805FR-0710KL | 0.022 | 10 | 311-10.0KCRCT-ND | 0.039 | 10 | 603-RC0805FR-0710KL | 0.014 | 10 |
| 49 | 9 | 10R | 0805 | R2, R4, R5, R28, R36, R37, R54, R62, R63 | 9236643 | RC1206FR-0710RL | 0.050 | 10 | 311-10.0CRCT-ND | 0.071 | 10 | 603-RC1206FR-0710RL | 0.034 | 10 |
| 50 | 4 | 3K3 | 0805 | R21, R22, R43, R69 | 2447651 | MCWR08X3301FTL | 0.010 | 10 | A129755CT-ND | 0.045 | 10 | | | |
| 51 | 3 | 120R | 0805 | R23, R51, R77 | 2447561 | MCWR08X1200FTL | 0.009 | 10 | RMCF0805FT120RCT-ND | 0.020 | 10 | 71-CRCW0805120RFKEAC | 0.037 | 10 |
| 52 | 5 | 47K | 0805 | R3, R45, R46, R71, R72 | 2447664 | MCWR08X4702FTL | 0.009 | 10 | RHM47KKCT-ND | 0.036 | 10 | 603-RC0805FR-0747KL | 0.014 | 10 |
| 53 | 4 | 22K | 0805 | R30, R33, R56, R59 | 2447607 | MCWR08X2202FTL | 0.010 | 10 | RMCF0805FT22K0CT-ND | 0.024 | 10 | 71-CRCW080522K0FKEAC | 0.018 | 100 |
| 54 | 2 | 12K | 0805 | R49, R75 | 2447563 | MCWR08X1202FTL | 0.010 | 10 | A126337CT-ND | 0.047 | 10 | 71-CRCW080512K0FKEA | 0.058 | 10 |
| 55 | 4 | 0R | 0805 | R32, R38, R58, R64 | 2747563 | MCWR08X0000FTL | 0.006 | 10 | RMCF0805ZT0R00CT-ND | 0.019 | 10 | 603-RC0805FR-070RL | 0.023 | 10 |
| 56 | 2 | R012/2W | 2512 | R35, R61 | 2483605 | TLM3AER012JTE | 0.161 | 10 | YAG2164CT-ND | 0.491 | 10 | 279-RLP73V3AR012FTDF | 0.347 | 10 |
| 57 | 4 | 30K | 0805 | R41, R47, R67, R73 | 2303701 | ERJ6ENF3002V | 0.058 | 10 | P30.0KCCT-ND | 0.085 | 10 | 603-RC0805FR-0730KL | 0.014 | 10 |
| 58 | 2 | 3K9 | 0805 | R48, R74 | 2447654 | MCWR08X3901FTL | 0.010 | 10 | A126369CT-ND | 0.018 | 100 | 652-CR0805FX-3901ELF | 0.008 | 10 |
| 59 | 2 | 3K6 | 0805 | R50, R76 | 2447652 | MCWR08X3601FTL | 0.010 | 10 | RMCF0805FT3K60CT-ND | 0.010 | 100 | 603-RT0805FRE073K6L | 0.017 | 100 |
| 60 | 2 | 11K8 | 0805 | R52, R78 | 2138981 | CRCW080511K8FKEA. | 0.040 | 10 | 311-11.8KCRCT-ND | 0.037 | 10 | 603-RC0805FR-0711K8L | 0.010 | 100 |
| 61 | 2 | 15K | 0805 | R53, R79 | 1099808 | WCR0805-15KFI | 0.019 | 10 | A126341CT-ND | 0.041 | 10 | 71-CRCW080515K0FKEBC | 0.013 | 10 |
| 62 | 7 | 2K2 | 0805 | R6, R24, R25, R26, R27, R40, R66 | 9237534 | RC0805FR-072K2L | 0.037 | 10 | 311-2.20KCRCT-ND | 0.039 | 10 | 603-RC0805FR-072K2L | 0.026 | 10 |
| 63 | 6 | 86K6 | 0805 | R7, R9, R42, R44, R68, R70 | 2303750RL | ERJ6ENF8662V | 0.058 | 10 | 311-86.6KCRCT-ND | 0.036 | 10 | 603-RT0805FRE0786K6L | 0.056 | 10 |

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|-------------------|----------|-----------------------|-----------------|-----|------------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 44 | 2 | BSP716NH6327XTSA1 | - | | | | BSP716NH6327XTSA 1 | 0.201 | 3 | | 2 | TME | 0.201 € | 2 | 0.402 |
| 45 | 4 | NTD5867NLT4G | 719-2901 | NTD5867NLT4G | 0.524 | 5 | NTD5867NLT4G | 0.310 | 3 | | 4 | TME | 0.310 € | 4 | 1.240 |
| 46 | 2 | BSS205NH6327XTSA1 | 892-2374 | BSS205NH6327 XTSA1 | 0.108 | 100 | BSS205NH6327XTSA 1 | 0.097 | 10 | | 2 | TME | 0.097 € | 2 | 0.194 |
| 47 | 2 | BSS84P | - | | | | BSS84P | 0.060 | 10 | | 2 | TME | 0.060 € | 2 | 0.120 |
| 48 | 14 | 10K | 125-1189 | CRG0805F10K | 0.002 | 100 | 0805S8F1002T5E | 0.014 | 100 | | 14 | RS | 0.002 € | 14 | 0.028 |
| 49 | 9 | 10R | 740-9085 | CR1206-FX- 10R0ELF | 0.036 | 50 | CRCW120610R0FKTA BC | 0.031 | 100 | | 9 | TME | 0.031 € | 9 | 0.279 |
| 50 | 4 | 3K3 | 223-0499 | CRG0805F3K3 | 0.027 | 50 | 805S8F3301T5E | 0.015 | 100 | | 4 | Farnell | 0.010 € | 4 | 0.039 |
| 51 | 3 | 120R | 223-0304 | CRG0805F120R | 0.035 | 50 | 0805S8F1200T5E | 0.022 | 100 | | 3 | Farnell | 0.009 € | 3 | 0.028 |
| 52 | 5 | 47K | 679-1434 | CRCW080547K 0FKEA | 0.036 | 50 | RC0805FR-0747K | 0.022 | 100 | | 5 | Farnell | 0.009 € | 5 | 0.047 |
| 53 | 4 | 22K | 679-1109 | CRCW080522K 0FKEA | 0.034 | 50 | 0805S8J0223T5E | 0.013 | 100 | | 4 | Farnell | 0.010 € | 4 | 0.039 |
| 54 | 2 | 12K | 223-0578 | CRG0805F12K | 0.020 | 50 | SMD0805-12K-1% | 0.014 | 100 | | 2 | Farnell | 0.010 € | 2 | 0.020 |
| 55 | 4 | 0R | - | | | | CQ0805-0R-1% | 0.028 | 100 | | 4 | Farnell | 0.006 € | 4 | 0.025 |
| 56 | 2 | R012/2W | 869-5467 | TLM3AER012FT E | 0.204 | 10 | LRP12FTWRR012 | 0.145 | 10 | | 2 | TME | 0.145 € | 2 | 0.290 |
| 57 | 4 | 30K | - | | | | SMD0805-30K-1% | 0.022 | 100 | | 4 | Mouser | 0.014 € | 4 | 0.056 |
| 58 | 2 | 3K9 | 223-0506 | CRG0805F3K9 | 0.021 | 50 | 0805S8F3901T5E | 0.015 | 100 | | 2 | Mouser | 0.008 € | 2 | 0.016 |
| 59 | 2 | 3K6 | 865-4425 | ERJU06F3601V | 0.039 | 50 | 0805S8F3601T5E | 0.007 | 100 | | 2 | TME | 0.007 € | 2 | 0.014 |
| 60 | 2 | 11K8 | 679-0847 | CRCW080511K 8FKEA | 0.036 | 50 | 0805S8F1182T5E | 0.014 | 100 | | 2 | Mouser | 0.010 € | 2 | 0.020 |
| 61 | 2 | 15K | 223-0584 | CRG0805F15K | 0.023 | 50 | SMD0805-15K | 0.013 | 100 | | 2 | Mouser | 0.013 € | 2 | 0.026 |
| 62 | 7 | 2K2 | 679-1207 | CRCW08052K2 0FKEA | 0.039 | 50 | 0805S8F2201T5E | 0.022 | 100 | | 7 | TME | 0.022 € | 7 | 0.156 |
| 63 | 6 | 86K6 | - | | | | CRCW080586K6FKTA BC | 0.025 | 100 | | 6 | TME | 0.025 € | 6 | 0.150 |

| # | Farnell / Element14 | | | | | | | | Digi-Key | | | Mouser | | |
|----|---------------------|----------------|---|----------------------|---------|--------------------|-----------------|-----|------------------------|-----------------|-----|------------------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 64 | 3 | 330K | 0805 | R8, R29, R55 | 2447637 | MCWR08X3303FT L | 0.010 | 10 | A126361CT-ND | 0.046 | 10 | 652-CR0805FX- 3303ELF | 0.013 | 10 |
| 65 | 1 | DR1206-33R-4/8 | 1206 resistor array | RN1 | 1770128 | CAY16-330J4LF | 0.069 | 10 | CAY16- 330J4LFCT-ND | 0.090 | 1 | 652-CAY16- 330J4LF | 0.085 | 1 |
| 66 | 1 | SRF0703-821M | 0703 | TR1 | 1852832 | SRF0703-821M | 0.827 | 1 | SRF0703- 821MCT-ND | 0.900 | 1 | 652-SRF0703- 821M | 0.681 | 1 |
| 67 | 1 | 39-30-1020 | THT, Minifit Jr. 2-pin, right angle | X1 | 9732080 | 39-28-1023 | 0.367 | 1 | WM3800-ND | 0.530 | 1 | 538-39-28-1023 | 0.530 | 1 |
| 68 | 1 | 77317-104-28LF | THT, 28-pin 0.1" header right angled | X2 | - | | | | S2111EC-14-ND | 1.030 | 1 | 649-77317-104- 28LF | 1.540 | 1 |
| 69 | 1 | ZL263-10DG | THT, 10-pin 0.1" receptacle right angled | X4 | 1841243 | 613010243121 | 0.910 | 1 | S9202-ND | 0.720 | 1 | 710- 613010243121 | 0.950 | 1 |
| 70 | 1 | LF XTAL026392 | XTAL; 7.5x5.1x1.4mm | Y1 | 1276696 | LFXTAL026392 | 1.250 | 1 | 1923-1009-ND | 0.850 | 1 | 449- LFXTAL026392B ULK | 0.972 | 1 |
| 71 | 3 | SMAJ51A | SMA | ZD1, ZD2, ZD3 | 2677667 | SMAJ51A | 0.144 | 5 | SMAJ51ALFCT- ND | 0.370 | 1 | 652-SMAJ51A | 0.463 | 1 |
| 72 | 2 | MM3Z9V1T1G | SOD-323 | ZD2, ZD4 | 2463517 | MM3Z9V1T1G | 0.124 | 5 | MM3Z9V1T1GO SCT-ND | 0.120 | 1 | 863- MM3Z9V1T1G | 0.108 | 10 |

| Not installed | | | | | | | | | | | | | | |
|---------------|----------------|---------------------|--|---------------|---------|------------------------|-------|----|------------------------|-------|-----|-----------------------|-------|-----|
| 1 | 100n | 0603 | | C25 | 2522597 | C0603C104K4RAC 7081 | 0.011 | 10 | 490-4774-1-ND | 0.029 | 100 | 80- C0603C104M4R | 0.007 | 100 |
| 3 | N.C. | 0805 | | C37, C53, C76 | | | | | | | | | | |
| 2 | N.C. | 0805 | | C58, C78 | | | | | | | | | | |
| 2 | N.C. | SMA | | D5, D8 | | | | | | | | | | |
| 1 | TPD4E001DRLR | | | IC7 | | | | | | | | | | |
| 1 | 2mm jumper | THT | | JP1 | | | | | | | | | | |
| 1 | N.C. | 2512 | | R1 | 2081875 | ASC2512-4K7FT4 | 0.195 | 10 | A130729CT-ND | 0.331 | 10 | 279- CRGP2512F4K7 | 0.180 | 10 |
| 1 | N.C. | 0805 | | R19 | | | | | | | | | | |
| 2 | N.C. | 1206 | | R39, R65 | | | | | | | | | | |
| 1 | DR1206-33R-4/8 | 1206 resistor array | | RN2 | 1770128 | CAY16-330J4LF | 0.069 | 10 | CAY16- 330J4LFCT-ND | 0.090 | 1 | 652-CAY16- 330J4LF | 0.085 | 1 |
| 1 | 22-23-2061 | THT | | X3 | | | | | | | | | | |

| Related parts and accessories | | | | | | | | | | | | | | |
|-------------------------------|-------------|--|--|----------|---------|-----------------|--------|---|--------------|--------|---|----------------|--------|---|
| 2 | PMB-1 | PCB bracket; polyamide | | KK1, KK2 | - | | | | - | | | - | | |
| 2 | ICKSMDB13SA | Miniature heatsink 13 x 19 | | | 4302254 | ICK SMD B 13 SA | 0.782 | 5 | - | | | - | | |
| 1 | LRS-150F-48 | Mean Well 48 Vdc power module | | | 2815982 | LRS-150F-48 | 21.150 | 1 | 1866-3328-ND | 23.460 | 1 | 709-LRS150F-48 | 23.330 | 1 |
| 1 | TBC-07 | Terminal cover for Mean Well power module | | | - | | | | 1866-4907-ND | 0.260 | 1 | 709-TBC-07 | 0.292 | 1 |

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|----------------|----------|-------------------|--------------|-----|--------------------|--------------|-----|-----|-----|-----------------------------|---------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 64 | 3 | 330K | 679-1272 | CRCW0805330 KFKEA | 0.038 | 50 | SMD0805-330K-1% | 0.015 | 100 | | 3 | Farnell | 0.010 € | 3 | 0.030 |
| 65 | 1 | DR1206-33R-4/8 | 522-5670 | CAY16-330J4LF | 0.004 | 50 | DR1206-33R-4/8 | 0.009 | 100 | | 1 | RS | 0.004 € | 1 | 0.004 |
| 66 | 1 | SRF0703-821M | - | | | | - | | | | 1 | Mouser | 0.681 € | 1 | 0.681 |
| 67 | 1 | 39-30-1020 | 484-1883 | 39-28-102 | 0.354 | 5 | MX-39-30-1020 | 0.339 | 5 | 1 | | TME | 0.339 € | 1 | 0.339 |
| 68 | 1 | 77317-104-28LF | - | | | | - | | | 1 | | Digikey | 1.030 € | 1 | 1.030 |
| 69 | 1 | ZL263-10DG | 826-7194 | 613010243121 | 0.950 | 1 | ZL263-10DG | 0.301 | 2 | 1 | | TME | 0.301 € | 1 | 0.301 |
| 70 | 1 | LF XTAL026392 | 148-4357 | LFXTAL026392 | 0.960 | 10 | 16.00M-12SM | 0.950 | 1 | | 1 | Digikey | 0.850 € | 1 | 0.850 |
| 71 | 3 | SMAJ51A | 171-4238 | SMAJ51A | 0.320 | 25 | SMAJ51A-LF | 0.201 | 3 | | 3 | Farnell | 0.144 € | 3 | 0.432 |
| 72 | 2 | MM3Z9V1T1G | 802-4653 | MM3Z9V1T1G | 0.039 | 200 | MM3Z9V1T1G | 0.020 | 25 | | 2 | TME | 0.020 € | 2 | 0.041 |
| | | | | | | | | | | | 13 | 198 | | | |
| | | | | | | | | | | | | | | | 39.93 € |

| Not installed | | | | | | | | | | | | | | | |
|---------------|----------------|----------|------------------|-------|----|--|---------------------|-------|-----|--|---|---------|---------|---|-------|
| 1 | 100n | 393-6952 | VJ0603Y104KXJ AT | 0.069 | 25 | | CL10B104KA8NNNC | 0.098 | 100 | | 1 | Mouser | 0.007 € | 1 | 0.007 |
| 3 | N.C. | | | | | | | | | | 3 | Farnell | 0.000 € | 3 | 0.000 |
| 2 | N.C. | | | | | | | | | | | | | | |
| 2 | N.C. | | | | | | | | | | | | | | |
| 1 | TPD4E001DRLR | | | | | | | | | | 1 | Farnell | 0.000 € | 1 | 0.000 |
| 1 | 2mm jumper | | | | | | | | | | 1 | Farnell | 0.000 € | 1 | 0.000 |
| 1 | N.C. | 224-0424 | 35204K7JT | 1.370 | 10 | | CRCW25124K70FKTH BC | 0.113 | 10 | | 1 | TME | 0.113 € | 1 | 0.113 |
| 1 | N.C. | | | | | | | | | | | | | | |
| 2 | N.C. | | | | | | | | | | | | | | |
| 1 | DR1206-33R-4/8 | 522-5670 | CAY16-330J4LF | 0.004 | 50 | | DR1206-33R-4/8 | 0.009 | 100 | | 1 | RS | 0.004 € | 1 | 0.004 |
| 1 | 22-23-2061 | | | | | | | | | | 1 | Farnell | 0.000 € | 1 | 0.000 |

| Related parts and acces: | | | | | | | | | | | | | | | |
|--------------------------|-------------|----------|-------------|--------|---|--|-------------|--------|----|--|--|---------|----------|---|---------|
| 2 | PMB-1 | - | | | | | PMB-1 | 0.072 | 10 | | | TME | 0.072 € | 2 | 0.145 |
| 2 | ICKSMDB13SA | - | | | | | ICKSMDB13SA | 0.570 | 2 | | | TME | 0.570 € | 2 | 1.140 |
| 1 | LRS-150F-48 | 106-5854 | LRS-150F-48 | 21.730 | 1 | | LRS-150F-48 | 15.650 | 1 | | | TME | 15.650 € | 1 | 15.650 |
| 1 | TBC-07 | - | | | | | TBC-07 | 0.260 | 1 | | | Digikey | 0.260 € | 1 | 0.260 |
| | | | | | | | | | | | | | | | 17.19 € |

| | | | | | | Farnell / Element14 | | | Digi-Key | | | Mouser | | |
|---|-----|-----------|---------|----------------------|------|---------------------|-----------------|-----|-------------|-----------------|-----|-------------|-----------------|-----|
| # | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |

Custom made components

| | | |
|---|-----|---|
| 1 | PCB | 2-layer 145 x 95 mm, 1 oz. Cu - thickness |
|---|-----|---|

All prices are net prices (without VAT)

Please note that BOM does not contain ordering number for parts on reels or that which includes re-reeling fee (e.g. Farnell). Take also into account that total cost is higher because min. quantity (MOQ) for many parts is larger then what is needed for single unit.

All resistors are 1% 0805 and all capacitors are X7R 0805 if not otherwise specified.

| # | RS Components | | | | | | TME | | | THT | | SMD | | Price calculation for 1 set | | | |
|----------------------|---------------|-----------|------|-------------|-----------------|-----|--------------------|-----------------|-----|-----|--|------------------|---------------------------|-----------------------------|-------------|---------|--|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € | | |
| Custom made componer | | | | | | | | | | | | | | | | | |
| 1 | PCB | | | | | | | | | | | ALLPCB | 7.387 € | 1 | 7.387 | | |
| | | | | | | | | | | | | | | 7.39 € | | | |
| | | | | | | | | | | | | | | Total | | 64.52 € | |