

EEZ DIB DCM220 BOM (r1B2, 2019-07-10)
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 | 3 | 4n7/100V | 1206, 100V | C1, C2, C3 | 2812433 | 885012207120 | 0,069 | 10 | 1276-2524-1-ND | 0,059 | 10 | 710-885012207120 | 0,033 | 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 | 1 | 18p | C0G, 0603 | C16 | 2896373 | VJ0603A180JXAC W1BC | 0,016 | 10 | 1276-1089-1-ND | 0,048 | 10 | 80-C0603C180J5G7 867 | 0,023 | 10 |
| 5 | 6 | 10n | 0805 | C19, C23, C33, C34, C60, C83 | 2896555 | VJ0805Y103JXXP W1BC | 0,065 | 10 | 490-7194-1-ND | 0,017 | 10 | 710-885012207122 | 0,036 | 10 |
| 6 | 6 | 1u | 0805 | C22, C35, C47, C51, C70, C74 | 2896566 | VJ0805Y105KXXT W1BC | 0,084 | 5 | 587-1283-1-ND | 0,090 | 10 | 603-CC805MKX7R7B B105 | 0,062 | 10 |
| 7 | 3 | 100p | C0G, 0805 | C36, C43, C66 | 2896861 | C0805C101JAGAC TU | 0,023 | 10 | 399-15000-1-ND | 0,019 | 10 | 80-C0805C101K5G | 0,032 | 10 |
| 8 | 4 | 3n3 | 0805 | C38, C39, C40, C41 | 2896578 | VJ0805Y332KXAC W1BC | 0,025 | 10 | 1276-1260-1-ND | 0,039 | 10 | 80-C0805C332K5R | 0,024 | 10 |
| 9 | 7 | 4u7 | 1206 | C4, C5, C14, C26, C27, C44, C67 | 1907356 | C3216X7R1E475K 160AC | 0,240 | 5 | 1276-2970-1-ND | 0,199 | 10 | 963-EMK316B7475M L-T | 0,129 | 10 |
| 10 | 4 | EEEFK1V470P | ECAPSMD8.3MM/HA0 | C42, C55, C65, C78 | 9695850 | EEEFK1V470P | 0,368 | 1 | PCE3842CT-ND | 0,460 | 1 | 667-EEE-FK1V470P | 0,445 | 1 |
| 11 | 4 | 10u | 1210, 50V | C45, C46, C68, C69 | 2672214 | GRT31CR61H106 KE01L | 0,684 | 5 | 1276-6736-1-ND | 0,184 | 10 | 810-C3216X7R1HK1 60AC | 0,597 | 10 |
| 12 | 2 | 220n | 0805 | C48, C71 | 2320828 | MC0805B224J250 CT | 0,087 | 5 | 1276-6477-1-ND | 0,520 | 10 | 963-EMK212B7224K G-T | 0,059 | 10 |
| 13 | 6 | 22u | 1210, 25V | C49, C53, C54, C72, C76, C77 | 2320935 | MC1210X226K250 CT | 1,490 | 1 | 1276-3373-1-ND | 0,369 | 10 | 603-CC121KKX7R8B B226 | 0,777 | 10 |
| 14 | 4 | 10n/200V | 1206 | C50, C57, C73, C80 | 2812560 | 885342207005 | 0,078 | 5 | 311-4491-1-ND | 0,150 | 10 | 603-C1206KRX7RAB B103 | 0,129 | 10 |
| 15 | 2 | UVZ1E102MPD | THT; Ø10mm: RM5 | C56, C79 | 9451226 | MCGPR25V108M1 0X21 | 0,388 | 1 | 93-1305-ND | 0,500 | 1 | UVZ1E102MPD1 CM | 0,376 | 1 |
| 16 | 2 | 470p | 0805 | C58, C81 | 1759217 | MC0805N471J500 CT | 0,061 | 10 | 732-7837-1-ND | 0,059 | 10 | 710-885012007038 | 0,056 | 10 |
| 17 | 2 | 33n | 0805 | C59, C82 | 2627479 | MC0805B333K250 CT | 0,046 | 10 | 1276-1796-1-ND | 0,057 | 10 | 710-885012207069 | 0,036 | 10 |
| 18 | 3 | 2u2 | 1206, 50V | C6, C9, C21 | | | | | 1276-2723-1-ND | 0,132 | 10 | 80-C1206C225M5R ECLR | 0,106 | 10 |
| 19 | 2 | 4n7 | C0G, 0805 | C61, C84 | 1828942 | GRM2165C1H472J A01D | 0,184 | 10 | 732-12255-1-ND | 0,162 | 10 | 810-C2012C0G1H47 2J-1 | 0,072 | 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 | 3 | 4n7/100V | 723-6394 | GRM219R72A4 72KA01D | 0,029 | 100 | 08051C472KAT2A | 0,025 | 100 | | 3 | TME | 0,025 € | 3 | 0,074 |
| 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 | 1 | 18p | 147-415 | C0603C180J5G ACTU | 0,032 | 50 | CL10C180JB8NNNC | 0,015 | 100 | | 1 | TME | 0,015 € | 1 | 0,015 |
| 5 | 6 | 10n | 464-6672 | 08055C103KAT 2A | 0,026 | 50 | CC0805KRX7R9103 | 0,027 | 100 | | 6 | Digikey | 0,017 € | 6 | 0,102 |
| 6 | 6 | 1u | 451-5770 | C0805C105K4R ACTU | 0,028 | 25 | CL21B105KOFNNNE | 0,010 | 100 | | 6 | TME | 0,010 € | 6 | 0,062 |
| 7 | 3 | 100p | 461-3997 | CC0805JRNP09 BN101 | 0,030 | 50 | CL21C101JBANNNC | 0,026 | 100 | | 3 | Digikey | 0,019 € | 3 | 0,057 |
| 8 | 4 | 3n3 | 237-7009 | GRM216R71H3 32KA01D | 0,060 | 50 | VJ0805Y333KXACW1 BC | 0,023 | 100 | | 4 | TME | 0,023 € | 4 | 0,092 |
| 9 | 7 | 4u7 | 691-1221 | C1206C475K3R ACTU | 0,232 | 25 | GCM31CR71E475KA5 5L | 0,381 | 10 | | 7 | Mouser | 0,129 € | 7 | 0,903 |
| 10 | 4 | EEEFK1V470P | 537-0657 | EEEFK1V470P | 0,422 | 1 | EEEFK1V470P | 0,130 | 5 | | 4 | TME | 0,130 € | 4 | 0,520 |
| 11 | 4 | 10u | 103-4163 | UMK316BBJ106 KL-T | 0,236 | 20 | CL31A106KBHNNNE | 0,546 | 10 | | 4 | Digikey | 0,184 € | 4 | 0,736 |
| 12 | 2 | 220n | 103-4126 | UMK212B7224K G-T | 0,039 | 50 | CL21B224KAFNNNE | 0,022 | 100 | | 2 | TME | 0,022 € | 2 | 0,044 |
| 13 | 6 | 22u | 766-1182 | CL32A226KAJN NNE | 0,343 | 10 | CL32A226KAJNNNE | 0,158 | 10 | | 6 | TME | 0,158 € | 6 | 0,948 |
| 14 | 4 | 10n/200V | 669-8647 | CC1206KRX7R ABB103 | 0,128 | 25 | VJ1206Y103KXCTW1 BC | 0,019 | 100 | | 4 | TME | 0,019 € | 4 | 0,076 |
| 15 | 2 | UVZ1E102MPD | 845-4685 | UVZ1E102MPD | 0,353 | 25 | UVZ1E102MPD | 0,250 | | 2 | | TME | 0,250 € | 2 | 0,500 |
| 16 | 2 | 470p | 378-700 | 0805CG471J9B B | 0,040 | 25 | CC0805JRNP09BN47 1 | 0,024 | 100 | | 2 | TME | 0,024 € | 2 | 0,048 |
| 17 | 2 | 33n | 135-6639 | 08051C333KAT 2A | 0,021 | 100 | CC0805KRX7R9333 | 0,016 | 100 | | 2 | TME | 0,016 € | 2 | 0,032 |
| 18 | 3 | 2u2 | 184-3509 | UMK316B7225K LHT | 0,151 | 10 | CL31B225KBHNNNE | 0,029 | 50 | | 3 | TME | 0,029 € | 3 | 0,086 |
| 19 | 2 | 4n7 | 741-4529 | C2012C0G1H47 2J060AA | 0,056 | 100 | GRM2165C1H472JA0 1D | 0,021 | 100 | | 2 | TME | 0,021 € | 2 | 0,042 |

| # | 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 |
| 20 | 16 | 100n | 0603 | C7, C8, C10, C15, C17, C18, C20, C24, C25, C28, C29, C32, C37, C62, C63, C64 | 2522597 | C0603C104K4RAC7081 | 0,011 | 10 | | 490-4774-1-ND | 0,029 | 100 | 80-C0603C104M4R | 0,007 | 100 |
| 21 | 4 | SKL16 | SOD-123 | D1, D2, D3, D5 | 2673070 | RB160MM-60TR | 0,282 | 5 | | RB160MM-60CT-ND | 0,264 | 10 | 755-RB160MM-60TR | 0,233 | 10 |
| 22 | 1 | BLM18AG102SH1D | 0603 | FB1 | 1669708 | MMZ1608Y102B | 0,072 | 10 | | 490-7809-1-ND | 0,052 | 50 | 81-BLM18AG102SH1D | 0,063 | 10 |
| 23 | 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 |
| 24 | 2 | LT3763EFE#PBF | TSSOP-28 | IC10, IC12 | - | | | | | LT3763EFE#PBF-ND | 4,950 | 1 | 584-LT3763EFE#PBF | 4,830 | 1 |
| 25 | 1 | MC33274ADR2G | SOIC-16 | IC11 | 2531387 | MC33274ADR2G | 1,010 | 1 | | MC33274ADR2G OSCT-ND | 1,190 | 1 | 863-MC33274ADR2G | 1,020 | 1 |
| 26 | 1 | TPS54060DGQ | MSOP-10 | IC2 | 1710820 | TPS54060DGQ . | 3,030 | 1 | | 296-37148-1-ND | 2,630 | 1 | 595-TPS54060DGQR | 2,490 | 1 |
| 27 | 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 |
| 28 | 1 | M24C32-WMN6P | SOIC-8 | IC4 | 1224413 | M24C32-WMN6P | 0,212 | 5 | | - | | | 511-M24C32-WMN6P | 0,210 | 1 |
| 29 | 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 |
| 30 | 1 | MAX5715BAUD+ | TSSOP-14 | IC7 | 2514616 | MAX5715BAUD+ | 4,140 | 1 | | MAX5715BAUD+-ND | 5,190 | 1 | 700-MAX5715BAUD+ | 4,100 | 1 |
| 31 | 1 | STM32F373C8T6 | LQFP-48 | IC8 | 2333274 | STM32F373C8T6 | 4,420 | 1 | | 497-13306-ND | 3,940 | 1 | 511-STM32F373C8T6 | 3,840 | 1 |
| 32 | 1 | MC33272ADR2G | SOIC-8 | IC9 | 2531389 | MC33272ADR2G | 0,854 | 1 | | MC33272ADR2G OSCT-ND | 0,910 | 1 | 863-MC33272ADR2G | 0,865 | 1 |
| 33 | 1 | 4907 | THT, PCB terminal; 4.8mm | J1 | - | | | | | 36-4907-ND | 0,260 | 1 | 534-4907 | 0,257 | 1 |
| 34 | 2 | 571-0500 | THT, Ø4 mm terminal; red | J2, J4 | 1101127 | 571-0500-01 | 1,720 | 5 | | - | | | 164-6219 | 2,040 | 1 |
| 35 | 2 | 571-0100 | THT, Ø4 mm terminal; black | J3, J5 | 1101128 | 571-0100-01 | 1,740 | 5 | | - | | | 164-6218 | 1,840 | 1 |
| 36 | 1 | RN112-4-02-0M7 | THT, Current-compensated Choke | L1 | - | | | | | 817-2100-ND | 1,560 | 1 | 631-RN112-4-02-0M7 | 1,400 | 1 |
| 37 | 2 | 125CDMCCDS-330MC | Power inductor | L2, L4 | 2211631 | 7443551331 | 3,930 | 1 | | 308-2568-1-ND | 1,510 | 1 | 851-125CDMCCDS330MC | 1,590 | 1 |
| 38 | 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 |
| 39 | 2 | WP42WUM/EGW | THT, dual (green/red) 3 mm LED | LED1, LED2 | - | | | | | 754-1718-ND | 0,930 | 1 | 604-WP42WUM/EGW | 0,926 | 1 |
| 40 | 2 | NTCS0805E3103JMT | NTC 0805 | NTC1, NTC2 | 2103177 | NTCS0805E3103JMT | 0,399 | 10 | | BC2292CT-ND | 0,490 | 1 | 594-2381-615-53103 | 0,353 | 10 |
| 41 | 4 | IRFR7546TRPBF | DPAK | Q1, Q2, Q5, Q6 | 2456720 | IRFR7546TRPBF | 0,773 | 5 | | IRFR7546TRPBF CT-ND | 0,880 | 1 | 942-IRFR7546TRPBF | 0,777 | 1 |
| 42 | 2 | 2N7002 | SOT-23 | Q3, Q7 | 1713825 | 2N7002K-7 | 0,148 | 5 | | T2N7002AKLMC T-ND | 0,126 | 10 | 757-T2N7002AKLM | 0,113 | 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 € |
| 20 | 16 | 100n | 393-6952 | VJ0603Y104KXJ AT | 0,069 | 25 | CL10B104KA8NNNC | 0,098 | 100 | | 16 | Mouser | 0,007 € | 16 | 0,112 |
| 21 | 4 | SKL16 | 124-6774 | RB160MM-60TR | 0,230 | 40 | SKL16-DIO | 0,105 | 5 | | 4 | TME | 0,105 € | 4 | 0,420 |
| 22 | 1 | BLM18AG102SH1D | 839-0803 | BLM18AG102S H1D | 0,043 | 100 | BLM18AG102SH1D | 0,016 | 50 | | 1 | TME | 0,016 € | 1 | 0,016 |
| 23 | 1 | Si8662AB-B-IS1 | 823-2062 | Si8662AB-B-IS1 | 1,870 | 5 | - | | | | 1 | Mouser | 1,760 € | 1 | 1,760 |
| 24 | 2 | LT3763EFE#PBF | - | | | | | | | | 2 | Mouser | 4,830 € | 2 | 9,660 |
| 25 | 1 | MC33274ADR2G | 773-7787 | MC33274ADR2 G | 1,010 | 2 | MC33274ADR2G | 0,740 | 1 | | 1 | TME | 0,740 € | 1 | 0,740 |
| 26 | 1 | TPS54060DGQ | 698-9079 | TPS54060DGQ | 2,680 | 1 | - | | | | 1 | Mouser | 2,490 € | 1 | 2,490 |
| 27 | 1 | Si8641AB-B-IS1 | 823-2000 | Si8641AB-B-IS1 | 1,496 | 5 | - | | | | 1 | Mouser | 1,410 € | 1 | 1,410 |
| 28 | 1 | M24C32-WMN6P | 686-2453 | M24C32- WMN6P | 0,180 | 25 | M24C32-WMN6P | 0,165 | 3 | | 1 | TME | 0,165 € | 1 | 0,165 |
| 29 | 1 | LP2985-33DBVR | 660-6733 | LP2985-33DBVT | 0,737 | 1 | LP2985-33DBVR | 0,362 | 1 | | 1 | TME | 0,362 € | 1 | 0,362 |
| 30 | 1 | MAX5715BAUD+ | - | | | | - | | | | 1 | Mouser | 4,100 € | 1 | 4,100 |
| 31 | 1 | STM32F373C8T6 | 795-9164 | STM32F373C8T 6 | 2,060 | 1 | - | | | | 1 | RS | 2,060 € | 1 | 2,060 |
| 32 | 1 | MC33272ADR2G | 773-7778 | MC33272ADR2 G | 0,865 | 1 | MC33272ADR2G | 0,570 | 1 | | 1 | TME | 0,570 € | 1 | 0,570 |
| 33 | 1 | 4907 | - | | | | 61-1537-11/0031 | 0,049 | 10 | | 1 | TME | 0,049 € | 1 | 0,049 |
| 34 | 2 | 571-0500 | 103-6511 | 571-0500 | 1,216 | 5 | 571-0500 | 0,620 | 3 | | 2 | TME | 0,620 € | 2 | 1,240 |
| 35 | 2 | 571-0100 | 103-6527 | 571-0100 | 1,334 | 5 | 571-0100 | 0,620 | 3 | | 2 | TME | 0,620 € | 2 | 1,240 |
| 36 | 1 | RN112-4-02-0M7 | - | | | | - | | | | 1 | Mouser | 1,400 € | 1 | 1,400 |
| 37 | 2 | 125CDMCCDS-330MC | - | | | | - | | | | 2 | Digikey | 1,510 € | 2 | 3,020 |
| 38 | 2 | HPI0630-3R3 | - | | | | HPI0630-3R3 | 0,335 | 1 | | 2 | TME | 0,335 € | 2 | 0,670 |
| 39 | 2 | WP42WUM/EGW | - | | | | L-42WUM/1EGWT | 0,501 | 1 | | 2 | TME | 0,501 € | 2 | 1,002 |
| 40 | 2 | NTCS0805E3103JMT | 179-3950 | NTCS0805E310 3JMT | 0,250 | 250 | NTCS0805E3103JMT | 0,113 | 15 | | 2 | TME | 0,113 € | 2 | 0,226 |
| 41 | 4 | IRFR7546TRPBF | 130-0990 | IRFR7546TRPB F | 0,619 | 10 | IRFR7546TRPBF | 0,470 | 3 | | 4 | TME | 0,470 € | 4 | 1,880 |
| 42 | 2 | 2N7002 | 671-0312 | 2N7002 | 1,250 | 20 | 2N7002LT1G | 0,019 | 25 | | 2 | TME | 0,019 € | 2 | 0,038 |

| # | 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 |
| 43 | 2 | BSS84P | SOT-23 | Q4, Q8 | 1056526 | BSS84PH6327XTS A2 | 0,224 | 5 | BSS84PH6433X TMA1CT-ND | 0,314 | 10 | 726- BSS84PH6327X TSA2 | 0,196 | 10 |
| 44 | 1 | 4K7/2W | 2512 | R1 | 2081875 | ASC2512-4K7FT4 | 0,195 | 10 | A130729CT-ND | 0,331 | 10 | 279- CRGP2512F4K7 | 0,180 | 10 |
| 45 | 6 | 10K | 0805 | R10, R11, R12, R13, R14, R15 | 9237755 | RC0805FR- 0710KL | 0,022 | 10 | 311-10.0KCRCT- ND | 0,039 | 10 | 603-RC0805FR- 0710KL | 0,014 | 10 |
| 46 | 2 | 3K3 | 0805 | R16, R17 | | | | | | | | | | |
| 47 | 4 | 1K | 0805 | R18, R19, R20, R21 | 1099800 | WCR0805-1K0FI | 0,019 | 10 | RC0805FR- 071KL | 0,039 | 10 | 603-RC0805FR- 071KL | 0,015 | 10 |
| 48 | 7 | 10R | 0805 | R2, R4, R5, R28, R29, R51, R52 | 9236643 | RC1206FR- 0710RL | 0,050 | 10 | 311-10.0CRCT- ND | 0,071 | 10 | 603-RC1206FR- 0710RL | 0,034 | 10 |
| 49 | 4 | 20K | 0805 | R22, R25, R45, R48 | 2447603 | MCWR08X2002FT L | 0,009 | 10 | A126349CT-ND | 0,047 | 10 | RCG080520K0F KEA | 0,034 | 50 |
| 50 | 6 | 12K | 0805 | R23, R26, R40, R46, R49, R63 | 2447563 | MCWR08X1202FT L | 0,010 | 10 | A126337CT-ND | 0,047 | 10 | 71- CRCW080512K0 FKEA | 0,058 | 10 |
| 51 | 4 | 0R | 0805 | R24, R30, R47, R53 | 2747563 | MCWR08X0000FT L | 0,006 | 10 | RMCF0805ZT0R 00CT-ND | 0,019 | 10 | 603-RC0805FR- 070RL | 0,023 | 10 |
| 52 | 2 | R012/2W | 2512 | R27, R50 | 2483605 | TLM3AER012JTE | 0,161 | 10 | YAG2164CT-ND | 0,491 | 10 | 279- RLP73V3AR012 FTDF | 0,347 | 10 |
| 53 | 5 | 47K | 0805 | R3, R36, R37, R59, R60 | 2447664 | MCWR08X4702FT L | 0,009 | 10 | RHM47KKCT-ND | 0,036 | 10 | 603-RC0805FR- 0747KL | 0,014 | 10 |
| 54 | 4 | 30K | 0805 | R33, R38, R56, R61 | 2303701 | ERJ6ENF3002V | 0,058 | 10 | P30.0KCCT-ND | 0,085 | 10 | 603-RC0805FR- 0730KL | 0,014 | 10 |
| 55 | 2 | 3K9 | 0805 | R39, R62 | | | | | | | | | | |
| 56 | 2 | 3K6 | 0805 | R41, R64 | | | | | | | | | | |
| 57 | 2 | 120R | 0805 | R42, R65 | 2447561 | MCWR08X1200FT L | 0,009 | 10 | RMCF0805FT12 0RCT-ND | 0,020 | 10 | 71- CRCW0805120R FKEAC | 0,037 | 10 |
| 58 | 2 | 11K8 | 0805 | R43, R66 | | | | | | | | | | |
| 59 | 2 | 15K | 0805 | R44, R67 | 1099808 | WCR0805-15KFI | 0,019 | 10 | A126341CT-ND | 0,041 | 10 | 71- CRCW080515K0 FKEBC | 0,013 | 10 |
| 60 | 3 | 2K2 | 0805 | R6, R32, R55 | 9237534 | RC0805FR- 072K2L | 0,037 | 10 | 311-2.20KCRCT- ND | 0,039 | 10 | 603-RC0805FR- 072K2L | 0,026 | 10 |
| 61 | 6 | 86K6 | 0805 | R7, R9, R34, R35, R57, R58 | 2303750RL | ERJ6ENF8662V | 0,058 | 10 | 311-86.6KCRCT- ND | 0,036 | 10 | 603- RT0805FRE0786 K6L | 0,056 | 10 |
| 62 | 1 | 330K | 0805 | R8 | 2447637 | MCWR08X3303FT L | 0,010 | 10 | A126361CT-ND | 0,046 | 10 | 652-CR0805FX- 3303ELF | 0,013 | 10 |
| 63 | 1 | DR1206-33R-4/8 | R_ARRAY4 | RN1 | 1770128 | CAY16-330J4LF | 0,069 | 10 | CAY16- 330J4LFCT-ND | 0,090 | 1 | 652-CAY16- 330J4LF | 0,085 | 1 |
| 64 | 1 | SRF0703-821M | 0703 | TR1 | 1852832 | SRF0703-821M | 0,827 | 1 | SRF0703- 821MCT-ND | 0,900 | 1 | 652-SRF0703- 821M | 0,681 | 1 |
| 65 | 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 |

| # | 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 € |
| 43 | 2 | BSS84P | - | | | | BSS84P | 0,060 | 10 | | 2 | TME | 0,060 € | 2 | 0,120 |
| 44 | 1 | 4K7/2W | 224-0424 | 35204K7JT | 1,370 | 10 | CRCW25124K70FKTH BC | 0,113 | 10 | | 1 | TME | 0,113 € | 1 | 0,113 |
| 45 | 6 | 10K | 125-1189 | CRG0805F10K | 0,002 | 100 | RC0805FR-0710K | 0,022 | 100 | | 6 | RS | 0,002 € | 6 | 0,012 |
| 46 | 2 | 3K3 | | | | | | | | | 2 | Farnell | 0,000 € | 2 | 0,000 |
| 47 | 4 | 1K | 223-0427 | CRG0805F1K0 | 0,017 | 50 | RC0805FR-071K | 0,022 | 100 | | 4 | Mouser | 0,015 € | 4 | 0,060 |
| 48 | 7 | 10R | 740-9085 | CR1206-FX- 10R0ELF | 0,036 | 50 | CRCW120610R0FKTA BC | 0,031 | 100 | | 7 | TME | 0,031 € | 7 | 0,217 |
| 49 | 4 | 20K | 679-1077 | CRCW080520K 0FKEA | 0,038 | 50 | RC0805FR-0720K | 0,035 | 100 | | 4 | Farnell | 0,009 € | 4 | 0,038 |
| 50 | 6 | 12K | 223-0578 | CRG0805F12K | 0,020 | 50 | SMD0805-12K-1% | 0,014 | 100 | | 6 | Farnell | 0,010 € | 6 | 0,059 |
| 51 | 4 | 0R | - | | | | CQ0805-0R-1% | 0,028 | 100 | | 4 | Farnell | 0,006 € | 4 | 0,025 |
| 52 | 2 | R012/2W | 869-5467 | TLM3AER012FT E | 0,204 | 10 | LRP2512-R012-1% | 0,145 | 10 | | 2 | TME | 0,145 € | 2 | 0,290 |
| 53 | 5 | 47K | 679-1434 | CRCW080547K 0FKEA | 0,036 | 50 | RC0805FR-0747K | 0,022 | 100 | | 5 | Farnell | 0,009 € | 5 | 0,047 |
| 54 | 4 | 30K | - | | | | SMD0805-30K-1% | 0,022 | 100 | | 4 | Mouser | 0,014 € | 4 | 0,056 |
| 55 | 2 | 3K9 | | | | | | | | | 2 | Farnell | 0,000 € | 2 | 0,000 |
| 56 | 2 | 3K6 | | | | | | | | | 2 | Farnell | 0,000 € | 2 | 0,000 |
| 57 | 2 | 120R | 223-0304 | CRG0805F120R | 0,035 | 50 | SMD0805-120R-1% | 0,022 | 100 | | 2 | Farnell | 0,009 € | 2 | 0,019 |
| 58 | 2 | 11K8 | | | | | | | | | 2 | Farnell | 0,000 € | 2 | 0,000 |
| 59 | 2 | 15K | 223-0584 | CRG0805F15K | 0,023 | 50 | SMD0805-15K | 0,013 | 100 | | 2 | Mouser | 0,013 € | 2 | 0,026 |
| 60 | 3 | 2K2 | 679-1207 | CRCW08052K2 0FKEA | 0,039 | 50 | SMD0805-2K2-1% | 0,022 | 100 | | 3 | TME | 0,022 € | 3 | 0,067 |
| 61 | 6 | 86K6 | - | | | | CRCW080586K6FKTA BC | 0,025 | 100 | | 6 | TME | 0,025 € | 6 | 0,150 |
| 62 | 1 | 330K | 679-1272 | CRCW0805330 KFKEA | 0,038 | 50 | SMD0805-330K-1% | 0,015 | 100 | | 1 | Farnell | 0,010 € | 1 | 0,010 |
| 63 | 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 |
| 64 | 1 | SRF0703-821M | - | | | | - | | | | 1 | Mouser | 0,681 € | 1 | 0,681 |
| 65 | 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 |

| # | Qty | Part name | Package | Reference designator | Code | Farnell / Element14 | | | Digi-Key | | | Mouser | | |
|----|-----|----------------|--|----------------------|---------|---------------------|-----------------|-----|----------------|-----------------|-----|--------------------|-----------------|-----|
| | | | | | | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 66 | 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 |
| 67 | 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 |
| 68 | 3 | SMAJ51A | SMA | ZD1, ZD2, ZD3 | 2677667 | SMAJ51A | 0,144 | 5 | SMAJ51ALFCT-ND | 0,370 | 1 | 652-SMAJ51A | 0,463 | 1 |

| Not installed | | | | | | | | | | | | | | |
|---------------|----------------|-----------|--|---------------|---------|--------------------|-------|----|--------------------|-------|-----|-------------------|-------|-----|
| 3 | N.C. | 0805 | | C37, C53, C76 | | | | | | | | | | |
| 1 | 100n | 0603 | | C24 | 2522597 | C0603C104K4RAC7081 | 0,011 | 10 | 490-4774-1-ND | 0,029 | 100 | 80-C0603C104M4R | 0,007 | 100 |
| 2 | 18p | C0G, 0603 | | C30, C31 | | | | | | | | | | |
| 2 | N.C. | SMA | | D4, D6 | | | | | | | | | | |
| 1 | TPD4E001DRLR | | | IC6 | | | | | | | | | | |
| 2 | N.C. | 1206 | | R31, R54 | | | | | | | | | | |
| 1 | 2mm jumper | THT | | JP1 | | | | | | | | | | |
| 1 | DR1206-33R-4/8 | R_ARRAY4 | | 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 | | | | | | | | | | |
| 1 | LF XTAL026392 | | | Y1 | | | | | | | | | | |

| Related parts and accessories | | | | | | | | | | | | | | |
|-------------------------------|-------------|---|----------|---------|-----------------|--------|---|--|--------------|--------|---|----------------|--------|---|
| 2 | PCB-MB-01 | 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 |

| 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 | | | | | Price calculation for 1 set | | | |
|----|---------------|----------------|----------|--------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 66 | 1 | 77317-104-28LF | - | | | | - | | | 1 | | Digikey | 1,030 € | 1 | 1,030 |
| 67 | 1 | ZL263-10DG | 826-7194 | 613010243121 | 0,950 | 1 | ZL263-10DG | 0,301 | 2 | 1 | | TME | 0,301 € | 1 | 0,301 |
| 68 | 3 | SMAJ51A | 171-4238 | SMAJ51A | 0,320 | 25 | SMAJ51A-LF | 0,201 | 3 | | 3 | Farnell | 0,144 € | 3 | 0,432 |
| | | | | | | | | | | 13 | 178 | 43,26 € | | | |

| Not installed | | | | | | | | | | | | | | | |
|---------------|----------------|----------|---------------------|-------|----|--|-----------------|-------|-----|---|---|---------|---------|---|-------|
| 3 | N.C. | | | | | | | | | 3 | | Farnell | 0,000 € | 3 | 0,000 |
| 1 | 100n | 393-6952 | VJ0603Y104KXJ AT | 0,069 | 25 | | CL10B104KA8NNNC | 0,098 | 100 | | 1 | Mouser | 0,007 € | 1 | 0,007 |
| 2 | 18p | | | | | | | | | 2 | | Farnell | 0,000 € | 2 | 0,000 |
| 2 | N.C. | | | | | | | | | | | | | | |
| 1 | TPD4E001DRLR | | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |
| 2 | N.C. | | | | | | | | | | | | | | |
| 1 | 2mm jumper | | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |
| 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 |
| 1 | LF XTAL026392 | | | | | | | | | | 1 | Farnell | 0,000 € | 1 | 0,000 |

| Related parts and acces: | | | | | | | | | | | | | | | |
|--------------------------|-------------|----------|-------------|--------|---|--|-------------|--------|----|--|--|---------|----------|---|---------|
| 2 | PCB-MB-01 | - | | | | | PCB-MB-01 | 0,091 | 10 | | | TME | 0,091 € | 2 | 0,182 |
| 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 |
| | | | | | | | | | | | | | | | 17,23 € |

| Custom made componer | | | | | | | | | | | | | | | |
|----------------------|-----|--|--|--|--|--|--|--|--|--|--|--------|---------|---|--------|
| 1 | PCB | | | | | | | | | | | ALLPCB | 7,387 € | 1 | 7,387 |
| | | | | | | | | | | | | | | | 7,39 € |

Total 67,88 €