

**EEZ DIB DCM220 BOM (r1B2, 2019-07-12)**  
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<br>€ | MOQ | Part Number    | Unit price<br>€ | MOQ | Part Number           | Unit price<br>€ | 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<br>€ | MOQ | Code / Part Number     | Unit price<br>€ | MOQ |     |     | Best<br>Supplier            | Lowest<br>unit price<br>€ | Order<br>Qty | Line Cost € |
| 1  | 3             | 4n7/100V    | 723-6394 | GRM219R72A4<br>72KA01D  | 0,029           | 100 | 08051C472KAT2A         | 0,025           | 100 |     | 3   | TME                         | 0,025 €                   | 3            | 0,074       |
| 2  | 1             | 330p        | 176-3198 | 0805N331J500C<br>T      | 0,037           | 200 | CL21C331JBANNNC        | 0,029           | 100 |     | 1   | TME                         | 0,029 €                   | 1            | 0,029       |
| 3  | 2             | 22u         | 172-1532 | LMK316ABJ226<br>KL      | 0,095           | 50  | CL31A226MOCLNNC        | 0,083           | 100 |     | 2   | TME                         | 0,083 €                   | 2            | 0,166       |
| 4  | 1             | 18p         | 147-415  | C0603C180J5G<br>ACTU    | 0,032           | 50  | CL10C180JB8NNNC        | 0,015           | 100 |     | 1   | TME                         | 0,015 €                   | 1            | 0,015       |
| 5  | 6             | 10n         | 464-6672 | 08055C103KAT<br>2A      | 0,026           | 50  | CC0805KRX7R9103        | 0,027           | 100 |     | 6   | Digikey                     | 0,017 €                   | 6            | 0,102       |
| 6  | 6             | 1u          | 451-5770 | C0805C105K4R<br>ACTU    | 0,028           | 25  | CL21B105KOFNNNE        | 0,010           | 100 |     | 6   | TME                         | 0,010 €                   | 6            | 0,062       |
| 7  | 3             | 100p        | 461-3997 | CC0805JRNP09<br>BN101   | 0,030           | 50  | CL21C101JBANNNC        | 0,026           | 100 |     | 3   | Digikey                     | 0,019 €                   | 3            | 0,057       |
| 8  | 4             | 3n3         | 237-7009 | GRM216R71H3<br>32KA01D  | 0,060           | 50  | VJ0805Y333KXACW1<br>BC | 0,023           | 100 |     | 4   | TME                         | 0,023 €                   | 4            | 0,092       |
| 9  | 7             | 4u7         | 691-1221 | C1206C475K3R<br>ACTU    | 0,232           | 25  | GCM31CR71E475KA5<br>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<br>KL-T    | 0,236           | 20  | CL31A106KBHNNNE        | 0,546           | 10  |     | 4   | Digikey                     | 0,184 €                   | 4            | 0,736       |
| 12 | 2             | 220n        | 103-4126 | UMK212B7224K<br>G-T     | 0,039           | 50  | CL21B224KAFNNNE        | 0,022           | 100 |     | 2   | TME                         | 0,022 €                   | 2            | 0,044       |
| 13 | 6             | 22u         | 766-1182 | CL32A226KAJN<br>NNE     | 0,343           | 10  | CL32A226KAJNNNE        | 0,158           | 10  |     | 6   | TME                         | 0,158 €                   | 6            | 0,948       |
| 14 | 4             | 10n/200V    | 669-8647 | CC1206KRX7R<br>ABB103   | 0,128           | 25  | VJ1206Y103KXCTW1<br>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<br>B       | 0,040           | 25  | CC0805JRNP09BN47<br>1  | 0,024           | 100 |     | 2   | TME                         | 0,024 €                   | 2            | 0,048       |
| 17 | 2             | 33n         | 135-6639 | 08051C333KAT<br>2A      | 0,021           | 100 | CC0805KRX7R9333        | 0,016           | 100 |     | 2   | TME                         | 0,016 €                   | 2            | 0,032       |
| 18 | 3             | 2u2         | 184-3509 | UMK316B7225K<br>LHT     | 0,151           | 10  | CL31B225KBHNNNE        | 0,029           | 50  |     | 3   | TME                         | 0,029 €                   | 3            | 0,086       |
| 19 | 2             | 4n7         | 741-4529 | C2012C0G1H47<br>2J060AA | 0,056           | 100 | GRM2165C1H472JA0<br>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<br>€ | MOQ |  | Part Number          | Unit price<br>€ | MOQ | Part Number         | Unit price<br>€ | 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<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ |     |     | Best<br>Supplier            | Lowest<br>unit price<br>€ | Order<br>Qty | Line Cost € |
| 20 | 16            | 100n             | 393-6952 | VJ0603Y104KXJ<br>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<br>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<br>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-<br>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<br>6    | 2,060           | 1   | -                  |                 |     |     | 1   | RS                          | 2,060 €                   | 1            | 2,060       |
| 32 | 1             | MC33272ADR2G     | 773-7778 | MC33272ADR2<br>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<br>3JMT | 0,250           | 250 | NTCS0805E3103JMT   | 0,113           | 15  |     | 2   | TME                         | 0,113 €                   | 2            | 0,226       |
| 41 | 4             | IRFR7546TRPBF    | 130-0990 | IRFR7546TRPB<br>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       |

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|----|---------------------|----------------|----------|-----------------------------------|-----------|-----------------------|-----------------|-----|---------------------------|-----------------|-----|------------------------------|-----------------|-----|
|    | Qty                 | Part name      | Package  | Reference designator              | Code      | Part Number           | Unit price<br>€ | MOQ | Part Number               | Unit price<br>€ | MOQ | Part Number                  | Unit price<br>€ | MOQ |
| 43 | 2                   | BSS84P         | SOT-23   | Q4, Q8                            | 1056526   | BSS84PH6327XTS<br>A2  | 0,224           | 5   | BSS84PH6433X<br>TMA1CT-ND | 0,314           | 10  | 726-<br>BSS84PH6327X<br>TSA2 | 0,196           | 10  |
| 44 | 1                   | 4K7/2W         | 2512     | R1                                | 2081875   | ASC2512-4K7FT4        | 0,195           | 10  | A130729CT-ND              | 0,331           | 10  | 279-<br>CRGP2512F4K7         | 0,180           | 10  |
| 45 | 6                   | 10K            | 0805     | R10, R11, R12, R13, R14,<br>R15   | 9237755   | RC0805FR-<br>0710KL   | 0,022           | 10  | 311-10.0KCRCT-<br>ND      | 0,039           | 10  | 603-RC0805FR-<br>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-<br>071KL        | 0,039           | 10  | 603-RC0805FR-<br>071KL       | 0,015           | 10  |
| 48 | 7                   | 10R            | 0805     | R2, R4, R5, R28, R29, R51,<br>R52 | 9236643   | RC1206FR-<br>0710RL   | 0,050           | 10  | 311-10.0CRCT-<br>ND       | 0,071           | 10  | 603-RC1206FR-<br>0710RL      | 0,034           | 10  |
| 49 | 4                   | 20K            | 0805     | R22, R25, R45, R48                | 2447603   | MCWR08X2002FT<br>L    | 0,009           | 10  | A126349CT-ND              | 0,047           | 10  | RCG080520K0F<br>KEA          | 0,034           | 50  |
| 50 | 6                   | 12K            | 0805     | R23, R26, R40, R46, R49,<br>R63   | 2447563   | MCWR08X1202FT<br>L    | 0,010           | 10  | A126337CT-ND              | 0,047           | 10  | 71-<br>CRCW080512K0<br>FKEA  | 0,058           | 10  |
| 51 | 4                   | 0R             | 0805     | R24, R30, R47, R53                | 2747563   | MCWR08X0000FT<br>L    | 0,006           | 10  | RMCF0805ZT0R<br>00CT-ND   | 0,019           | 10  | 603-RC0805FR-<br>070RL       | 0,023           | 10  |
| 52 | 2                   | R012/2W        | 2512     | R27, R50                          | 2483605   | TLM3AER012JTE         | 0,161           | 10  | YAG2164CT-ND              | 0,491           | 10  | 279-<br>RLP73V3AR012<br>FTDF | 0,347           | 10  |
| 53 | 5                   | 47K            | 0805     | R3, R36, R37, R59, R60            | 2447664   | MCWR08X4702FT<br>L    | 0,009           | 10  | RHM47KKCT-ND              | 0,036           | 10  | 603-RC0805FR-<br>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-<br>0730KL      | 0,014           | 10  |
| 55 | 2                   | 3K9            | 0805     | R39, R62                          | 2447654   | MCWR08X3901FT<br>L    | 0,010           | 10  | A126369CT-ND              | 0,018           | 100 | 652-CR0805FX-<br>3901ELF     | 0,008           | 10  |
| 56 | 2                   | 3K6            | 0805     | R41, R64                          | 2447652   | MCWR08X3601FT<br>L    | 0,010           | 10  | RMCF0805FT3K<br>60CT-ND   | 0,010           | 100 | 603-<br>RT0805FRE073<br>K6L  | 0,017           | 100 |
| 57 | 2                   | 120R           | 0805     | R42, R65                          | 2447561   | MCWR08X1200FT<br>L    | 0,009           | 10  | RMCF0805FT12<br>0RCT-ND   | 0,020           | 10  | 71-<br>CRCW0805120R<br>FKEAC | 0,037           | 10  |
| 58 | 2                   | 11K8           | 0805     | R43, R66                          | 2138981   | CRCW080511K8F<br>KEA. | 0,040           | 10  | 311-11.8KCRCT-<br>ND      | 0,037           | 10  | 603-RC0805FR-<br>0711K8L     | 0,010           | 100 |
| 59 | 2                   | 15K            | 0805     | R44, R67                          | 1099808   | WCR0805-15KFI         | 0,019           | 10  | A126341CT-ND              | 0,041           | 10  | 71-<br>CRCW080515K0<br>FKEBC | 0,013           | 10  |
| 60 | 3                   | 2K2            | 0805     | R6, R32, R55                      | 9237534   | RC0805FR-<br>072K2L   | 0,037           | 10  | 311-2.20KCRCT-<br>ND      | 0,039           | 10  | 603-RC0805FR-<br>072K2L      | 0,026           | 10  |
| 61 | 6                   | 86K6           | 0805     | R7, R9, R34, R35, R57, R58        | 2303750RL | ERJ6ENF8662V          | 0,058           | 10  | 311-86.6KCRCT-<br>ND      | 0,036           | 10  | 603-<br>RT0805FRE0786<br>K6L | 0,056           | 10  |
| 62 | 1                   | 330K           | 0805     | R8                                | 2447637   | MCWR08X3303FT<br>L    | 0,010           | 10  | A126361CT-ND              | 0,046           | 10  | 652-CR0805FX-<br>3303ELF     | 0,013           | 10  |
| 63 | 1                   | DR1206-33R-4/8 | R_ARRAY4 | RN1                               | 1770128   | CAY16-330J4LF         | 0,069           | 10  | CAY16-<br>330J4LFCT-ND    | 0,090           | 1   | 652-CAY16-<br>330J4LF        | 0,085           | 1   |

| #  | RS Components |                |          |                       |                 |     | TME                    |                 |     | THT | SMD | Price calculation for 1 set |                           |              |             |
|----|---------------|----------------|----------|-----------------------|-----------------|-----|------------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
|    | Qty           | Part name      | Code     | Part Number           | Unit price<br>€ | MOQ | Code / Part Number     | Unit price<br>€ | MOQ |     |     | Best<br>Supplier            | Lowest<br>unit price<br>€ | Order<br>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<br>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-<br>10R0ELF | 0,036           | 50  | CRCW120610R0FKTA<br>BC | 0,031           | 100 |     | 7   | TME                         | 0,031 €                   | 7            | 0,217       |
| 49 | 4             | 20K            | 679-1077 | CRCW080520K<br>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<br>E     | 0,204           | 10  | LRP12FTWRR012          | 0,145           | 10  |     | 2   | TME                         | 0,145 €                   | 2            | 0,290       |
| 53 | 5             | 47K            | 679-1434 | CRCW080547K<br>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            | 223-0506 | CRG0805F3K9           | 0,021           | 50  | 0805S8F3901T5E         | 0,015           | 100 |     | 2   | Mouser                      | 0,008 €                   | 2            | 0,016       |
| 56 | 2             | 3K6            | 865-4425 | ERJU06F3601V          | 0,039           | 50  | 0805S8F3601T5E         | 0,007           | 100 |     | 2   | TME                         | 0,007 €                   | 2            | 0,014       |
| 57 | 2             | 120R           | 223-0304 | CRG0805F120R          | 0,035           | 50  | 0805S8F1200T5E         | 0,022           | 100 |     | 2   | Farnell                     | 0,009 €                   | 2            | 0,019       |
| 58 | 2             | 11K8           | 679-0847 | CRCW080511K<br>8FKEA  | 0,036           | 50  | 0805S8F1182T5E         | 0,014           | 100 |     | 2   | Mouser                      | 0,010 €                   | 2            | 0,020       |
| 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<br>0FKEA  | 0,039           | 50  | 0805S8F2201T5E         | 0,022           | 100 |     | 3   | TME                         | 0,022 €                   | 3            | 0,067       |
| 61 | 6             | 86K6           | -        |                       |                 |     | CRCW080586K6FKTA<br>BC | 0,025           | 100 |     | 6   | TME                         | 0,025 €                   | 6            | 0,150       |
| 62 | 1             | 330K           | 679-1272 | CRCW0805330<br>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       |

| #  | Qty | Part name      | Package                                  | Reference designator | Code    | Farnell / Element14 |                 |     | Digi-Key          |                 |     | Mouser             |                 |     |
|----|-----|----------------|--|----------------------|---------|---------------------|-----------------|-----|-------------------|-----------------|-----|--------------------|-----------------|-----|
|    |     |                |  |                      |         | Part Number         | Unit price<br>€ | MOQ | Part Number       | Unit price<br>€ | MOQ | Part Number        | Unit price<br>€ | MOQ |
| 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   |
| 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<br>€ | MOQ             | Code / Part Number | Unit price<br>€ | MOQ | THT                         | SMD    | Best<br>Supplier | Lowest<br>unit price<br>€ | Order<br>Qty | Line Cost € |
| 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       |
| 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              |                           |              |             |
| 43,31 €                  |                |                |                     |              |                 |                 |                    |                 |     |                             |        |                  |                           |              |             |
| Not installed            |                |                |                     |              |                 |                 |                    |                 |     |                             |        |                  |                           |              |             |
| 3                        | N.C.           |                |                     |              |                 |                 |                    |                 |     |                             | 3      | Farnell          | 0,000 €                   | 3            | 0,000       |
| 1                        | 100n           | 393-6952       | VJ0603Y104KXJ<br>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        |             |
|                          |                |                |                     |              |                 |                 |                    |                 |     |                             |        |                  |                           | 67,93 €      |             |



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

|   |     |           |      | RS Components |                 |     | TME                |                 |     |     |     | Price calculation for 1 set |                           |              |             |
|---|-----|-----------|------|---------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| # | Qty | Part name | Code | Part Number   | Unit price<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ | THT | SMD | Best<br>Supplier            | Lowest<br>unit price<br>€ | Order<br>Qty | Line Cost € |