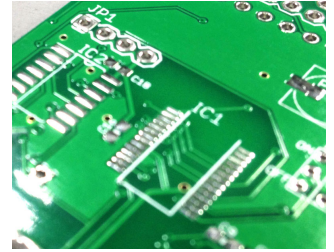


# EAGLE BOM and Soldering Guide

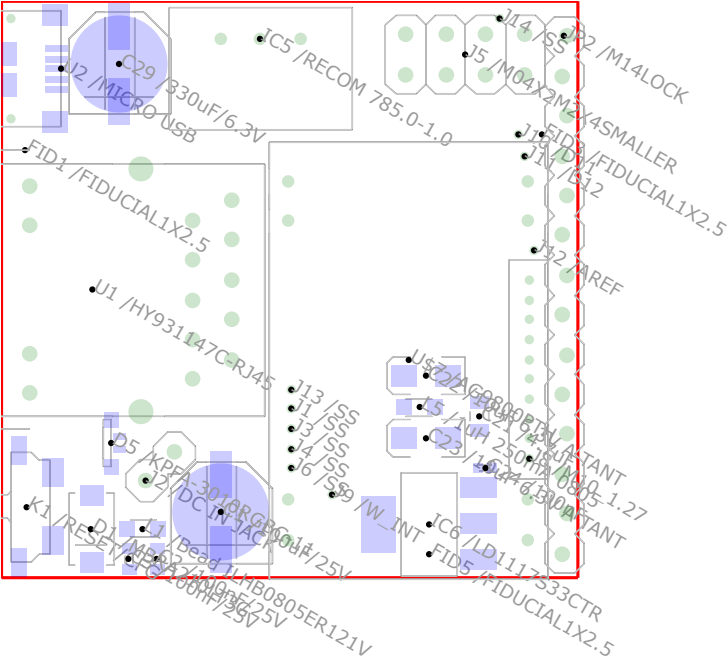
This tool is intended to help you in soldering or populating PCBs manually by showing a front- and backside view of components including highlighting similar components. This makes it easy to pick the right amount of the same components in one go and locate their position. Also, this tool creates a grouped BOM list which makes it easier to prepare a comma separated BOM for PCBA services such as the one [Seeed Studio](#) hosts.



## BoM (grouped):

```
xxx, 1, C1, C==100uF/25V/PANASONIC_D
xxx, 2, C10 C12, C==1uF/0402C
xxx, 1, C11, C==22uF/0805
xxx, 16, C13 C14 C15 C24 C30 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50, C==100nF/0402C
xxx, 4, C16 C17 C25 C26, C==22pF/0402C
xxx, 1, C18, C==22uF/6.3V/0805
xxx, 1, C19, C==10uF/16V/0805
xxx, 3, C2 C3 C4, C==100nF/25V/C0402
xxx, 2, C20 C9, C==10nF/0402C
xxx, 1, C21, C==4.7uF/0805
xxx, 3, C22 C23 C32, C==10uF6.3VATANT/EIA3216
xxx, 2, C27 C28, C==18pF/0402C
xxx, 1, C29, C==330uF/6.3V/PANASONIC_D
xxx, 1, C31, C==100nF/25V/0402C
xxx, 1, C5, C==10uF/25V/0805
xxx, 2, C6 C7, C==6.8nF/0402C
xxx, 1, C8, C==22nF/0402C
xxx, 1, D1, D==MBRA210LT3G/SMA-DIODE
xxx, 2, D2 D3, D==SMAJ58CA/SMA-DIODE
xxx, 2, D4 D6, D==MBR0520/SOD-123
xxx, 1, D5, D==KPFA-3010RGB-C-11/LED-TRICOLOR-SMD
xxx, 1, F1, F==SMD-PPTC-500MA-15V(1812)/F1812
xxx, 6, FID1 FID2 FID3 FID4 FID5 FID8, FID==FIDUCIAL1X2.5/FIDUCIAL-1X2.5
xxx, 1, FTDI-RESET, FTDI-RESET==SOLDERJUMPERNO/SJ_2S-NO
xxx, 1, IC1, IC==FT232RQ/QFN32
xxx, 1, IC2, IC==ATMEGA1284P/QFN-44M1
xxx, 1, IC3, IC==APX811-44UG-7/SOT143-R
xxx, 1, IC4, IC==WizNetW5500/LQFP-48
xxx, 1, IC5, IC==RECOM785.0-1.0/RECOM_785.0-1.0
xxx, 1, IC6, IC==LD1117S33CTR/SOT-223
xxx, 7, J1 J13 J14 J3 J4 J6 J7, J==SS/M1X1
xxx, 1, J10, J==D11/M1X1
xxx, 1, J11, J==D12/M1X1
xxx, 1, J12, J==AREF/M1X1
xxx, 1, J2, J==DCINJACK/1X02
xxx, 1, J5, J==M04X2M2X4SMALLER/M2X4SMALLER
xxx, 1, J8, J==M10_1.27/M10X1
xxx, 1, J9, J==W_INT/M1X1
xxx, 1, JP2, JP==M14LOCK/1X14_LOCK
xxx, 1, K1, K==RESET/CFG/SW4-SMD-7.0X3.5X3.5MM-90D
xxx, 3, L1 L2 L3, L==BeadILHB0805ER121V/L2012C
xxx, 1, L4, L==BeadILHB0805ER121V/0805
xxx, 1, L5, L==1uH250mA0805/L2012C
xxx, 1, R1, R==10R/1%/0402
xxx, 2, R10 R11, R==22R/0402
xxx, 1, R12, R==100K/0402
xxx, 2, R13 R20, R==1M/0402
xxx, 1, R14, R==12K4/1%/0402
xxx, 2, R15 R7, R==10K/0402
xxx, 2, R16 R17, R==100R/0402
xxx, 2, R18 R19, R==1K5/0402
xxx, 2, R2 R3, R==470R/0402
xxx, 1, R4, R==390R/0402
xxx, 1, R5, R==540R/0402
xxx, 1, R6, R==2K7/0402
xxx, 2, R8 R9, R==1K/0402
xxx, 1, RN1, RN==33R/CAY16
xxx, 1, RN2, RN==49R91%/CAY16
xxx, 1, U$7, U$==AG9800PTH/AG9800PTH
xxx, 1, U1, U==HY931147C-RJ45/HY931147C
xxx, 1, U2, U==MICROUSB/MICRO-USB5+4P-SMD-0.65-B
xxx, 1, USBVCC, USBVCC==SOLDERJUMPERNC/SJ_2S
xxx, 1, Y1, Y==20mHz/X2-SMD-5.0X3.2X1.3MM
xxx, 1, Y2, Y==25mHz/X2-SMD-5.0X3.2X1.3MM
xxx, 2, Z1 Z2, Z==PGB1010603/C0402
```

Top:



Bottom:

