

## **Eurocircuits Sàrl**

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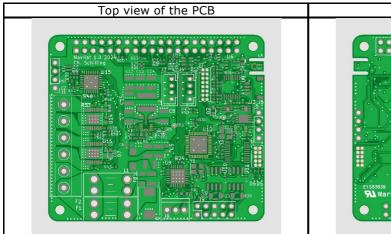
Vat no. / BTW-nummer: CH 635 211

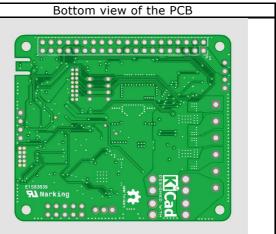
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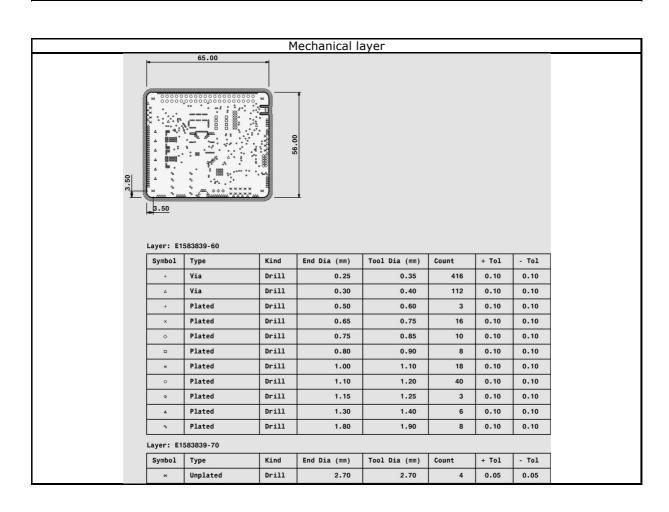
## **PCB Passport**

Order Number: E1583839

PCB name : NavHAT Purchase reference : Quantity packed : 10
Article reference : Packing date : 22-03-2024
Project reference : Navigation HAT Producer : Eurocircuits Kft.









## **PCB Passport**

Order Number: E1583839

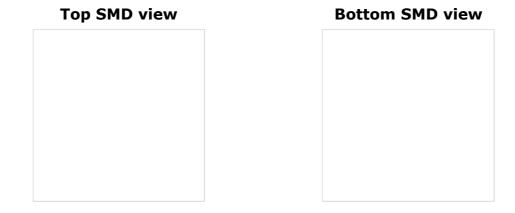
| Production Step         | End of the process | Used materials/Specified ordervalues  | Tolerances/Result |
|-------------------------|--------------------|---|-------------------|
| Start of production     | 28-02-2024         | IS 400 0,71 mm 35/35 um https://www.isola-group.com/products/all-printed-circuit-materials/is400/   | Pass              |
| Inner layer imaging     | 28-02-2024         | Type of dry resist foil: Ordyl ALPHA340   | Pass              |
| Innerlayer etching      | 28-02-2024         | IL TW: 0,125 mm<br>IL TT-TP-PP: 0,125 mm<br>IL AR: 0,125 mm   | Pass              |
| Innerlayer optical test | 28-02-2024         |   | Pass              |
| Production flow of oute |                    |   |                   |
| Multilayer pressing     | 28-02-2024         | Prepreg: PREPREG 7628 IS400 (w460x610) https://www.isola- group.com/products/all- printed-circuit- materials/is400/ Thickness of copper foil: 18 um Thickness after pressing: 1,5-1,53 mm | Pass              |
| Drilling                | 28-02-2024         | Smallest finished hole size: 0,15 mm  | Pass              |
| Pth                     | 29-02-2024         | Black hole  | Pass              |
| Outer layer imaging     | 29-02-2024         | Type of dry resist foil: Riston PM250   | Pass              |
| Outer layer galvano     | 29-02-2024         | Value of copper thickness in the holes: 20-27 um  | Pass (min. 18 um) |
| Outer layer etching     | 29-02-2024         | OL TW: 0,125 mm<br>OL TT-TP-PP: 0,125 mm<br>OL AR: 0,125 mm   | Pass              |
| Solderresist coating    | 29-02-2024         | 91584456 IMC5009H Clear<br>HF DI SC (H): CK10<br>91583543 IMC5009R Green<br>HF DI SC (R): EJ01  | Pass              |
| Legend                  | 29-02-2024         | Taiyo IJR-4000  | Pass              |
| Surface finish          | 29-02-2024         | Leadfree HASL   | Pass              |
| Electrical test         | 29-02-2024         |   | Pass              |
| Mechanical finishing    | 29-02-2024         | Outline milling   | Pass (+/-0,2 mm)  |
|                         |                    | •   | _                 |

Pass

22-03-2024

Final inspection

| 10129381-910001BLF   J9  |                                       | Assembly   |                                |
|--|---------------------------------------|--|--------------------------------|
| DEGISSCATAKATZA  | MPN                                   | Ref_des  | Manufacturer                   |
| C7_C8  | 12101C225KAT2A                        | C1,C2,C3,C4  | AVX                            |
| C11,C20,C21,C22,C25,C29, C30,C31,C35,C37,C38, C30,C31,C35,C36,C37,C38, C30,C31,C35,C36,C37,C38, C30,C31,C35,C36,C37,C38, C30,C31,C35,C36,C37,C38, C30,C31,C35,C36,C37,C38, C30,C31,C35,C36,C37,C38, C30,C31,C35,C36,C37, C38,C37, C38,C31,C35,C36,C37,C38,C31,C35,C36,C37,C38,C31,C35,C36,C37,C38,C31,C35,C36,C37,C38,C31,C35,C36,C37,C38,C31,C35,C36,C37,C38,C31,C31,C35,C36,C37,C38,C31,C31,C31,C31,C31,C31,C31,C31,C31,C31  | 06035C474KAT2A                        | C5,C6,C9,C10,C59,C60   | AVX                            |
| C30,C31,C35,C36,C37,C38,   | 885012209073                          |  | Wurth Elektronik               |
| CLOSCI10JBSNNNC         C16,C46,C48         Samsung           CL10A10SKOSNNNC         C17         Samsung Electro-Mechanics           CL05A10SKOSNNNC         C18,C19,C23,C24,C49         Samsung           04025C103KATZA         C26,C27,C28,C32,C33,C34         AVX           3.05MCJ30A         D1         Littelfuse           SD0603S040S0R2         D2,D3,D7         AVX           VCAN16A2-03G-E3-08         D4         Vishay Semiconductor Diodes Division           RCLAMP0582B.TCT         D5,D6         Semtech           3558         F1,F2         Keystone Electronics           BLM31KN12ISH1L         FB1         Murata           TB002-500-06BE         J1         CUI           BB-PH-K-S         J3,J4         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-0001674LF         J7         Amphenol           282834-3         J8         TE Connectivity AMP Connect           10129381-910001BLF         J9         Amphenol           24437336010         L1         Wurth Elektronik           74437336010         L1         Raspberry PI           RC0402FR-072ER         R1,R8,R31         Yageo           MCW064X1003FTL <t< td=""><td>GRM155R62A104ME14D</td><td>C30,C31,C35,C36,C37,C38,<br/>C39,C40,C41,C42,C43,C47,<br/>C50,C51,C52,C53,C54,C55,<br/>C58,C61,</td><td>Murata</td></t<>  | GRM155R62A104ME14D                    | C30,C31,C35,C36,C37,C38,<br>C39,C40,C41,C42,C43,C47,<br>C50,C51,C52,C53,C54,C55,<br>C58,C61, | Murata                         |
| CL10A105KO8NNNC         C17         Samsung Electro-Mechanics           CL05A105KOSNNNC         C18,C19,C23,C24,C49         Samsung           04025C103KAT2A         C26,C27,C28,C32,C33,C34         AVX           3.05MCJ30A         D1         Littelfuse           SD0603S040S0R2         D2,D3,D7         AVX           VCAN16A2-03G-E3-08         D4         Vishay Semiconductor Diodes Division           RCLAMP0582B.TCT         D5,D6         Semtech           3568         F1,F2         Keystone Electronics           BLM31KN121BH1         FB1         Murata           BLM91KN125H1L         FB1         Murata           BLM94-K-S         J3,J4         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-0001614LF         J7         Amphenol           20021111-0001671LF         J7         Amphenol           20021111-0001071LF         J10         Amphenol           74437336010         L1         Wurth Elektronik           74437336010         L1         Raspberry P1           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL <td< td=""><td></td><td>C12,C13,C14,C15</td><td>Murata</td></td<>   |                                       | C12,C13,C14,C15  | Murata                         |
| CLOSA105KO5NNNC         C18,C19,C23,C24,C49         Samsung           04025C13KATZA         C26,C27,C28,C32,C33,C34         AVX           3.05MC130A         D1         Littelfuse           SD0603S040S0R2         D2,D3,D7         AVX           VCAN16A2-03G-E3-08         D4         Vishay Semiconductor Diodes Division           RCLAMP0582B.TCT         D5,D6         Semtech           35588         F1,F2         Keystone Electronics           BLM31KN121SH1L         FB1         Murata           TB002-500-06BE         J1         CUI           B4B-PH-K-S         J3,J4         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-0001674LF         J7         Amphenol           282834-3         J8         TE Connectivity AMP Connect           10129381-910001BLF         J9         Amphenol           2432336010         L1         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-073KL         R4         Yageo           RC0402FR-073KL         R6  | CL05C110JB5NNNC                       | C16,C46,C48  | 5                              |
| AVX  |                                       | C17  | 3                              |
| 3.0SMCJ30A   | CL05A105KO5NNNC                       | C18,C19,C23,C24,C49  | Samsung                        |
| SD0603S040S0R2   |                                       | C26,C27,C28,C32,C33,C34  |                                |
| VCAN16A2-03G-E3-08         D4         Vishay Semiconductor Diodes Division           RCLAMP0582B.TCT         D5,D6         Semtech           3568         F1,F2         Keystone Electronics           BLM31KN12ISH1L         FB1         Murata           TB002-500-06BE         J1         CUI           B4B-PH-K-S         J3,J4         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-00016T4F         J7         Amphenol           282834-3         J8         TE Connectivity AMP Connect           10129381-910001BLF         J9         Amphenol           20021111-00010T1LF         J10         Amphenol           74437336010         L1         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-072ZRL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-0733KL         R4         Yageo           RC0402FR-0733KL         R4         Yageo           RC0402FR-0724KL         R6         Yageo           RC0402FR-075KL         R8,R33,R34,R35,R36,         Yageo           RC0402FR-075KL         R8,R1,R12,R13,R21,R22,  |                                       |  |                                |
| Division   | SD0603S040S0R2                        | D2,D3,D7   |                                |
| Section  | VCAN16A2-03G-E3-08                    |  |                                |
| BLM31KN121SH1L         FB1         Murata           TB002-500-06BE         J1         CUI           B4B-PH-K-S         J3,J4         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-00016T4LF         J7         Amphenol           282834-3         J8         TE Connectivity AMP Connect           10129381-910001BLF         J9         Amphenol           20021111-00010T1LF         J10         Amphenol           744373336010         L1         Wurth Elektronik           74439346047         L2         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           RC0402FR-0733KL         R4         Yageo           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,         Yageo           RCWR04X1002FTL         R9,R11,R12,R13,R21,R22,         Yageo </td <td>RCLAMP0582B.TCT</td> <td>D5,D6</td> <td>Semtech</td>  | RCLAMP0582B.TCT                       | D5,D6  | Semtech                        |
| TB002-500-06BE   |                                       |  | Keystone Electronics           |
| B4B-PH-K-S         J3,J4         JST Sales America Inc.           SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-0001674LF         J7         Amphenol           282834-3         J8         TE Connectivity AMP Connect           10129381-910001BLF         J9         Amphenol           20021111-0001071LF         J10         Amphenol           74437336010         L1         Wurth Elektronik           74439346047         L2         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-072ZRL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           RC0402FR-0733KL         R4         Yageo           RC0402FR-0724KL         R6         R7,R32,R33,R34,R35,R36,           RC0402FR-0715KL         R3         R38,R39,R40,R41,R42,R43,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,         Multicomp           ERJ-2RKF1001X         R14,R15,R16,R17,R18,R19,         Panasonic           RC0603FR-07750RL         R49         Yageo  | BLM31KN121SH1L                        | FB1  | Murata                         |
| SM04B-SRSS-TB         J5         JST Sales America Inc.           20021111-00016T4LF         J7         Amphenol           282834-3         J8         TE Connectivity AMP Connect           10129381-910001BLF         J9         Amphenol           20021111-00010T1LF         J10         Amphenol           74437336010         L1         Wurth Elektronik           74439346047         L2         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           RC0402FR-074K99L         R3         Yageo           RC0402FR-074K9L         R6         Yageo           RC0402FR-074KBL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,         R44,R45,R46,R51,R52,           MCWR04X1002FTL         R9,R11,R12,R13,R12,R12,R13,R21,R22,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R   | TB002-500-06BE                        |  | CUI                            |
| Amphenol   282834-3   38   TE Connectivity AMP Connect   10129381-910001BLF   39   Amphenol   20021111-00010T1LF   310   Amphenol   20021111-00010T1LF   20021111-00010T1LF   20021111-00010T1LF   20021111-00010T1LF   2002111-00010T1LF   2002111-00010T1   2002111-00010T1LF   2002 | B4B-PH-K-S                            | J3,J4  | JST Sales America Inc.         |
| TE Connectivity AMP Connect  | SM04B-SRSS-TB                         | J5   | JST Sales America Inc.         |
| 10129381-910001BLF   J9  | 20021111-00016T4LF                    | J7   | Amphenol                       |
| Decirio  | 282834-3                              | Ј8   | TE Connectivity AMP Connectors |
| 74437336010         L1         Wurth Elektronik           74439346047         L2         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-073KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,         Multicomp           R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor  | 10129381-910001BLF                    | J9   | Amphenol                       |
| 74439346047         L2         Wurth Elektronik           RPI Header 40XL         P1         Raspberry Pi           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instrume  | 20021111-00010T1LF                    | J10  | Amphenol                       |
| RPI Header 40XL         P1         Raspberry Pi           RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           RC0402FR-0715KL         R3,R33,R34,R35,R36,R38,R34,R35,R36,R34,R44,R42,R43,R44,R45,R46,R51,R52,R44,R45,R46,R51,R52,R24,R30,R37,R811,R12,R13,R21,R22,R24,R30,R37,R47,R50,R44,R42,R43   | 74437336010                           | L1   | Wurth Elektronik               |
| RC0402FR-0722RL         R1,R8,R31         Yageo           MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-073KL         R4         Yageo           RC0402FR-0733KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R6         Yageo           RC0402FR-0715KL         R3,R33,R34,R35,R36,R34,R35,R36,R34,R35,R36,R34,R35,R46,R51,R52,R44,R45,R46,R51,R52,R24,R30,R37,R41,R22,R24,R30,R37,R41,R22,R24,R30,R37,R41,R22,R24,R30,R37,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R47,R50,R44,R45,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R46,R51,R52,R52,R46,R51,R52,R52,R52,R52,R52,R52,R52,R52,R52,R52  | 74439346047                           | L2   | Wurth Elektronik               |
| MCWR04X1003FTL         R2,R10,R27,R29         Multicomp           RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R3,R39,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS788133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instrumen  | RPI Header 40XL                       | P1   | Raspberry Pi                   |
| RC0402FR-074K99L         R3         Yageo           RC0402FR-0733KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS788133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technolog  | RC0402FR-0722RL                       | R1,R8,R31  | Yageo                          |
| RC0402FR-0733KL         R4         Yageo           ERJ-2GE0R00X         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS778B133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | MCWR04X1003FTL                        | R2,R10,R27,R29   | Multicomp                      |
| ERJ-2GEOROOX         R5,R57,R58,R60,R62,R64         Panasonic           RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS788133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | RC0402FR-074K99L                      | R3   | Yageo                          |
| RC0402FR-0724KL         R6         Yageo           RC0402FR-0715KL         R7,R32,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | RC0402FR-0733KL                       | R4   | Yageo                          |
| RC0402FR-0715KL       R7,R32,R33,R34,R35,R36,<br>R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,       Yageo         MCWR04X1002FTL       R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,       Multicomp         ERJ2RKF1001X       R14,R15,R16,R17,R18,R19,<br>R47,R50,       Panasonic         ERJ-2RKF4701X       R48,R53,R54       Panasonic         RC0603FR-07750RL       R49       Yageo         MCWR04X4701FTL       R55       Multicomp         LM62460QRPHRQ1       U1       Texas Instruments         TPS7B8133DRVR       U2       Texas Instruments         NCP730BMT330TBG       U3       ON Semiconductor         SN74LVC2G74DCURG4       U4       Texas Instruments         BMP390       U5       Bosch         NCV8164ASN330T1G       U6       ON Semiconductor         MAX31343ETAY+T       U7       Maxim Integrated         ADS1119IPWT       U8       Texas Instruments         MCP25625T-E/ML       U9       Microchip Technology   | ERJ-2GE0R00X                          | R5,R57,R58,R60,R62,R64   |                                |
| RC0402FR-0715KL         R38,R39,R40,R41,R42,R43,<br>R44,R45,R46,R51,R52,         Yageo           MCWR04X1002FTL         R9,R11,R12,R13,R21,R22,<br>R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | RC0402FR-0724KL                       | -  | Yageo                          |
| MCWR04X1002FTL         R24,R30,R37,         Multicomp           ERJ2RKF1001X         R14,R15,R16,R17,R18,R19,<br>R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | RC0402FR-0715KL                       | R38,R39,R40,R41,R42,R43,   | Yageo                          |
| ERJ-2RKF1001X         R47,R50,         Panasonic           ERJ-2RKF4701X         R48,R53,R54         Panasonic           RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology   | MCWR04X1002FTL                        | R24,R30,R37,   | Multicomp                      |
| RC0603FR-07750RL         R49         Yageo           MCWR04X4701FTL         R55         Multicomp           LM62460QRPHRQ1         U1         Texas Instruments           TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | ERJ2RKF1001X                          |  | Panasonic                      |
| MCWR04X4701FTLR55MulticompLM62460QRPHRQ1U1Texas InstrumentsTPS7B8133DRVRU2Texas InstrumentsNCP730BMT330TBGU3ON SemiconductorSN74LVC2G74DCURG4U4Texas InstrumentsBMP390U5BoschNCV8164ASN330T1GU6ON SemiconductorMAX31343ETAY+TU7Maxim IntegratedADS1119IPWTU8Texas InstrumentsMCP25625T-E/MLU9Microchip Technology  | ERJ-2RKF4701X                         | R48,R53,R54  | Panasonic                      |
| LM62460QRPHRQ1U1Texas InstrumentsTPS7B8133DRVRU2Texas InstrumentsNCP730BMT330TBGU3ON SemiconductorSN74LVC2G74DCURG4U4Texas InstrumentsBMP390U5BoschNCV8164ASN330T1GU6ON SemiconductorMAX31343ETAY+TU7Maxim IntegratedADS1119IPWTU8Texas InstrumentsMCP25625T-E/MLU9Microchip Technology  | RC0603FR-07750RL                      | R49  | Yageo                          |
| TPS7B8133DRVR         U2         Texas Instruments           NCP730BMT330TBG         U3         ON Semiconductor           SN74LVC2G74DCURG4         U4         Texas Instruments           BMP390         U5         Bosch           NCV8164ASN330T1G         U6         ON Semiconductor           MAX31343ETAY+T         U7         Maxim Integrated           ADS1119IPWT         U8         Texas Instruments           MCP25625T-E/ML         U9         Microchip Technology  | MCWR04X4701FTL                        | R55  | Multicomp                      |
| NCP730BMT330TBG U3 ON Semiconductor SN74LVC2G74DCURG4 U4 Texas Instruments BMP390 U5 Bosch NCV8164ASN330T1G U6 ON Semiconductor MAX31343ETAY+T U7 Maxim Integrated ADS1119IPWT U8 Texas Instruments MCP25625T-E/ML U9 Microchip Technology   | LM62460QRPHRQ1                        | U1   | Texas Instruments              |
| SN74LVC2G74DCURG4 U4 Texas Instruments BMP390 U5 Bosch  NCV8164ASN330T1G U6 ON Semiconductor  MAX31343ETAY+T U7 Maxim Integrated  ADS1119IPWT U8 Texas Instruments  MCP25625T-E/ML U9 Microchip Technology   | TPS7B8133DRVR                         | U2   | Texas Instruments              |
| BMP390 U5 Bosch  NCV8164ASN330T1G U6 ON Semiconductor  MAX31343ETAY+T U7 Maxim Integrated  ADS1119IPWT U8 Texas Instruments  MCP25625T-E/ML U9 Microchip Technology  | NCP730BMT330TBG                       | U3   | ON Semiconductor               |
| NCV8164ASN330T1GU6ON SemiconductorMAX31343ETAY+TU7Maxim IntegratedADS1119IPWTU8Texas InstrumentsMCP25625T-E/MLU9Microchip Technology   | SN74LVC2G74DCURG4                     | U4   | Texas Instruments              |
| MAX31343ETAY+TU7Maxim IntegratedADS1119IPWTU8Texas InstrumentsMCP25625T-E/MLU9Microchip Technology   | BMP390                                | U5   | Bosch                          |
| ADS1119IPWT U8 Texas Instruments MCP25625T-E/ML U9 Microchip Technology  | NCV8164ASN330T1G                      | U6   | ON Semiconductor               |
| MCP25625T-E/ML U9 Microchip Technology   | MAX31343ETAY+T                        | U7   | Maxim Integrated               |
|  | ADS1119IPWT                           | U8   | Texas Instruments              |
| MAY14787EGSA± III0 III11 Mayim Integrated  | MCP25625T-E/ML                        | U9   | Microchip Technology           |
| I MAXIII IIILEGIALEO   | MAX14787EGSA+                         | U10,U11  | Maxim Integrated               |
| MAX14830ETM+T U12 Maxim Integrated   | MAX14830ETM+T                         | U12  |                                |
| MAX3222ECPWR U13 Texas Instruments   | MAX3222ECPWR                          | U13  | Texas Instruments              |
| TPS2HB16AQPWPRQ1 U14,U16 Texas Instruments   | TPS2HB16AQPWPRQ1                      | U14,U16  | Texas Instruments              |
| MCP23017T-E/ML U15 Microchip Technology  | MCP23017T-E/ML                        | U15  | Microchip Technology           |
| 24CW640T-I/OT U17 Microchip Technology   | · · · · · · · · · · · · · · · · · · · | U17  |                                |
| FC3BAEBDI20.0-T1 Y1 Fox / Abracon  |                                       | Y1   |                                |



| Production Flow-Assembly                       |                    |                                      |                   |  |  |
|--|--------------------|--------------------------------------|-------------------|--|--|
| Production Step                                | End of the process | Used materials/Specified ordervalues | Tolerances/Result |  |  |
| Start of Production                            | 28/02/2024         | BoM:E1583839-A                       | Pass              |  |  |
| Kitting  | 01/03/2024         |                                      | Pass              |  |  |
| Feeder preparation                             | 14/03/2024         |                                      | Pass              |  |  |
| Final feeder step                              | 20/03/2024         |                                      | Pass              |  |  |
| Pasting TWS - TOP +<br>SPI inspection          | 20/03/2024         |                                      | Pass              |  |  |
| Pasting Jetter - TOP<br>(All boards)           | 20/03/2024         |                                      | Pass              |  |  |
| SMD placement<br>(AUTO) - TOP (First<br>board) | 20/03/2024         |                                      | Pass              |  |  |
| PixPect PASTE                                  | 20/03/2024         |                                      | Pass              |  |  |
| Reflow - TOP (First<br>board)                  | 20/03/2024         |                                      | Pass              |  |  |
| SMD inspection - TOP<br>(First board)          | 20/03/2024         |                                      | Pass              |  |  |
| X-ray inspection -<br>TOP                      | 20/03/2024         |                                      | Pass              |  |  |
| SMD placement<br>(AUTO) - TOP (All<br>boards)  | 20/03/2024         |                                      | Pass              |  |  |
| Reflow - TOP (All<br>boards)                   | 20/03/2024         |                                      | Pass              |  |  |
| PixPect remained boards                        | 20/03/2024         |                                      | Pass              |  |  |
| X-ray inspection -<br>TOP                      | 20/03/2024         |                                      | Pass              |  |  |
| SMD inspection - TOP                           | 20/03/2024         |                                      | Pass              |  |  |
|  | 21/03/2024         |                                      | Pass              |  |  |
|  | 21/03/2024         |                                      | Pass              |  |  |
| THT Cut (MANUAL)                               | 21/03/2024         |                                      | Pass              |  |  |
| THT (MANUAL) - TOP<br>(First board)            | 21/03/2024         |                                      | Pass              |  |  |
| THT (MANUAL) - BOT (First board)               | 21/03/2024         |                                      | Pass              |  |  |
| THT (MANUAL)<br>inspection (First<br>board)    | 21/03/2024         |                                      | Pass              |  |  |
| THT (MANUAL) - TOP<br>(All boards)             | 21/03/2024         |                                      | Pass              |  |  |
| THT (MANUAL) - BOT<br>(All boards)             | 21/03/2024         |                                      | Pass              |  |  |
| THT PixPect                                    | 21/03/2024         |                                      | Pass              |  |  |
| Final inspection                               | 21/03/2024         |                                      | Pass              |  |  |
|  | 21/03/2024         |                                      | Pass              |  |  |
|  | 21/03/2024         |                                      | Pass              |  |  |
| Breakout & Packing                             | 21/03/2024         |                                      | Pass              |  |  |
| Shipping                                       | 21/03/2024         |                                      | Pass              |  |  |