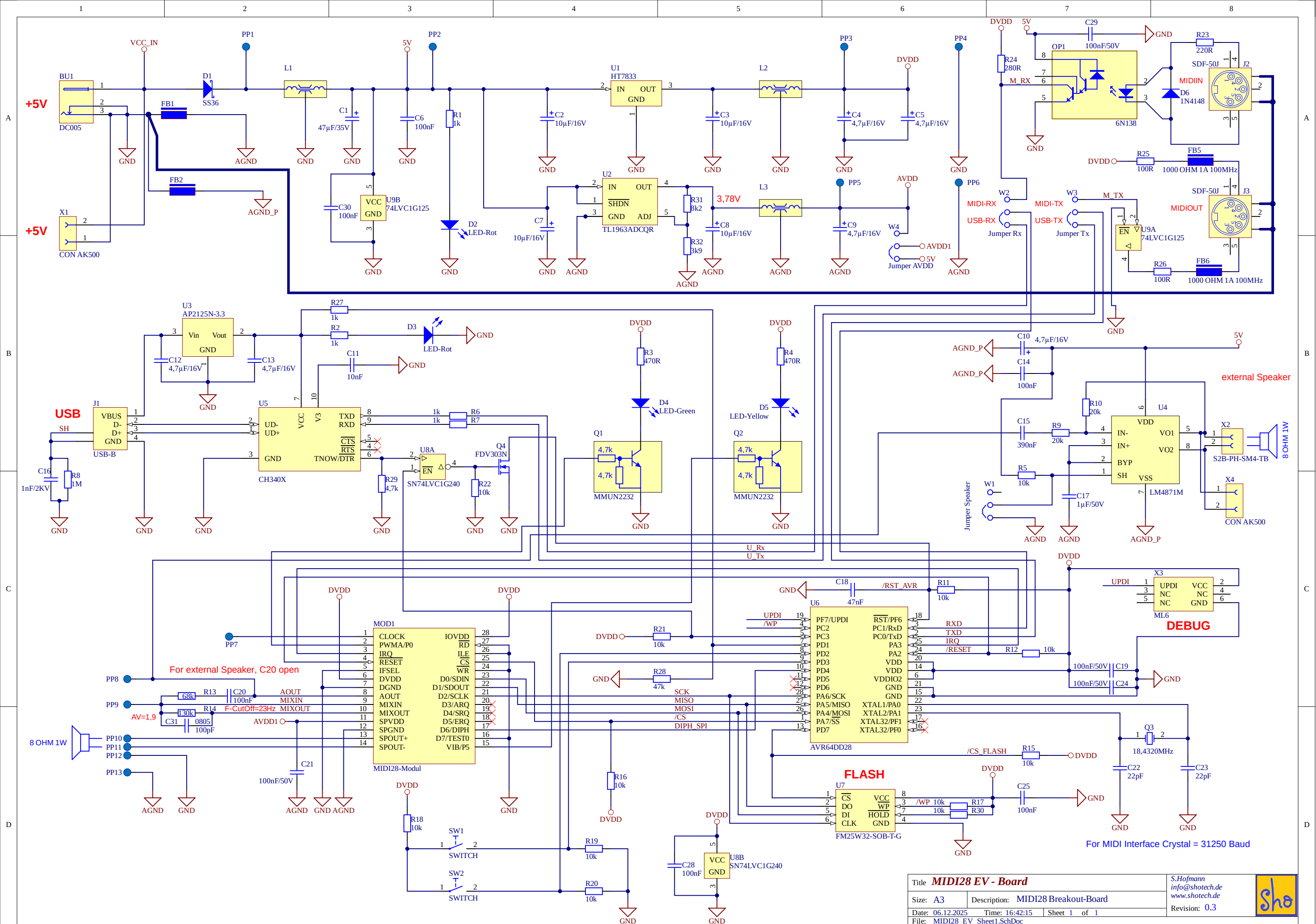
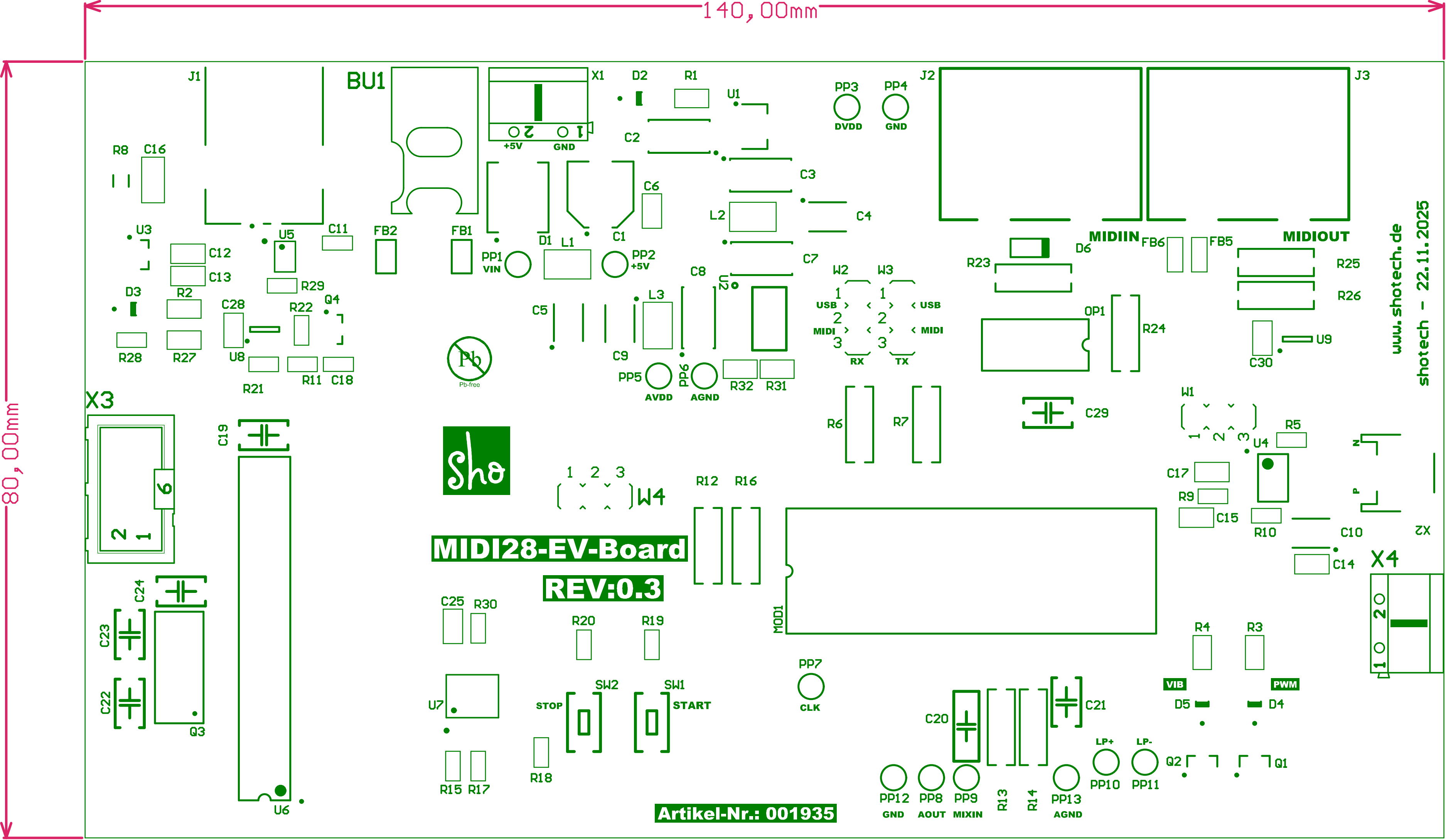








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## Bill of Materials

|              |                       |
|--------------|-----------------------|
| Datum:       | 6. Dezember 2025      |
| Zeit:        | 16:42:22              |
| Variant:     | None                  |
| Bezeichnung: | MIDI28 EV - Board     |
| Revision:    | 0.3                   |
| Description: | MIDI28 Breakout-Board |

| Quantity | Designator                 | Footprint              | Bemerkung                                                     | Value        | MFT                    | Order-Code        | Second-source            | shotech |
|----------|----------------------------|------------------------|---------------------------------------------------------------|--------------|------------------------|-------------------|--------------------------|---------|
| 1        | BU1                        | DC10B - slot           |                                                               | DC005        |                        | DC005-Gelb        |                          | 923     |
| 4        | C19, C21, C24, C29         | CAP_Radial_5MM         | 100nF/50V/±10%/X7R/RM 5.08                                    | 100nF/50V    | Vishay / BC Components | K104K15X7RF53H5   | C322C104K5R5TA - shotech | 1347    |
| 1        | C20                        | CAP_Radial_5MM_7k2_2k5 | Folienkondensator, 100nF, 63V, RM5, 10%                       | 100nF        | KEMET                  | R82DC3100AA50K    |                          | 1682    |
| 2        | C22, C23                   | CAP_Radial_5MM         | 5% Radial                                                     | 22pF         | TDK                    | FG28C0G1H220JNT06 |                          |         |
| 1        | D6                         | DO-35                  | Dioden (Allzweck, Leistung, Schaltung) Vr/75V Io/150mA T/R    | 1N4148       | On Semiconductors      | 1N4148TR          |                          | 1594    |
| 1        | J1                         | CON-A-USBSB            | USB-Buchse B print 90°                                        | USB-B        | Assmann WSW            | A-USBSB           |                          | 1618    |
| 2        | J2, J3                     | SDF-50J                | DIN, 5Pjack, rt, throughhole, w/shielding                     | SDF-50J      | CUI                    | SDF-50J           |                          |         |
| 1        | MOD1                       | PDIP28                 | 32 Polyphony Sound Generator, PCM,ADPCM                       | MIDI28-Modul | shotech                | MIDI28-Modul      |                          | 1485    |
| 1        | OP1                        | P008                   | Optok-Darl >2,5kV 7V 60mA DIP8                                | 6N138        | Vishay                 | 6N138             |                          |         |
| 13       | PP7, PP8, PP9, PP10, PP11, | VERO_Testpoint_Blue    | Prüfpunkt                                                     |              |                        |                   |                          |         |
| 1        | Q3                         | HC49/4H_SMX            | pF, 20 ppm, ABL                                               | 18,4320MHz   | ABRACON                | ABL-18.432MHZ-B2  |                          | 1606    |
| 2        | R6, R7                     | RES10-7.8X2.8 - 1k     | Metallsch. 0207 1/4W 1%                                       | 1k           | frei                   | RMGK001           |                          | 1235    |
| 2        | R12, R16                   | RES10-7.8X2.8 - 10k    | WIDERSTAND, 207, axial, 1%                                    | 10k          | frei                   | RMGK010           |                          | 1233    |
| 1        | R13                        | RES10-7.8X2.8          | WIDERSTAND, 207, axial, 1%                                    | 68k          | frei                   | RMGE068           |                          |         |
| 1        | R14                        | RES10-7.8X2.8 - 1k     | Metallsch. 0207 1/4W 1%                                       | 130k         | frei                   |                   |                          |         |
| 1        | R23                        | RES10-7.8X2.8 - 220R   | WIDERSTAND, 207, axial, 1%                                    | 220R         | frei                   | RMGE220           |                          | 1239    |
| 1        | R24                        | RES10-7.8X2.8          | WIDERSTAND, 207, axial, 1%                                    | 280R         |                        |                   |                          | 1677    |
| 2        | R25, R26                   | RES10-7.8X2.8          | WIDERSTAND, 207, 1%                                           | 100R         |                        |                   |                          | 1678    |
| 1        | U6                         | 28P3                   | AVR, 64KB Flash, 8KB SRAM, PDIP28                             | AVR64DD28    | Microchip              | AVR64DD28-I/SP    |                          |         |
| 1        | W1                         | JP2                    | Jumper 3pin                                                   | Jumper 3pin  | frei                   | frei              |                          | 1564    |
| 1        | W2                         | JP2                    | Jumper 3pin                                                   | Jumper 3pin  | frei                   | frei              |                          | 1564    |
| 1        | W3                         | JP2                    | Jumper 3pin                                                   | Jumper 3pin  | frei                   | frei              |                          | 1564    |
| 1        | W4                         | JP2                    | Jumper 3pin                                                   | Jumper 3pin  | frei                   | frei              |                          | 1564    |
| 2        | X1, X4                     | AK500/2                | AR-Klemmen 250V 2pol grau                                     | ARK500/2     | PTR-Messtechnik        | ARK500/2          |                          | 1576    |
| 1        | X3                         | ML6                    | Stiftleiste, Wire-to-Board, 2.54 mm, 2 Reihe(n), 6 Kontakt(e) | ML6          | AMPHENOL ICC           | 75869-131LF       | Harting - 09 18 506 6324 |         |
| 46       |                            |                        |                                                               |              |                        |                   |                          |         |