



## Bill of Materials for the BR262AD001EVK Evaluation Board

| Designator     | Quantity | Description   | Value            | Tolerance | Footprint                 | Manufacturer                    | Manufacturer Part Number | Substitution Allowed | Lead Free |
|----------------|----------|---|------------------|-----------|---------------------------|---------------------------------|--------------------------|----------------------|-----------|
| C15            | 1        | Ceramic Capacitor                                     | 150pF, NPO, 50V  | 5%        | 0402                      | TDK Corporation                 | C1005C0G1H151J           | Yes                  | Yes       |
| C7,C9          | 2        | Ceramic Capacitor                                     | 10nF, X7R, 50V   | 10%       | 0402                      | Taiyo Yuden                     | UMK105B7103KV-F          | Yes                  | Yes       |
| C13            | 1        | Ceramic Capacitor                                     | 56nF, X7R, 10V   | 10%       | 0402                      | Murata Electronics              | GRM155R61A563KA01D       | Yes                  | Yes       |
| C11,C17,C18    | 3        | Ceramic Capacitor                                     | 100nF, X5R, 25V  | 10%       | 0402                      | Taiyo Yuden                     | TMK105BJ104KV-F          | Yes                  | Yes       |
| C14            | 1        | Ceramic Capacitor                                     | 150nF, X7R, 16V  | 10%       | 0402                      | TDK Corporation                 | C1005X7R1C154K           | Yes                  | Yes       |
| C1,C2,C3,C5,C6 | 5        | Ceramic Capacitor                                     | 1uF, X5R, 10V    | 10%       | 0402                      | Murata Electronics              | GRM155R61A105KE15D       | Yes                  | Yes       |
| C8,C10         | 2        | Ceramic Capacitor                                     | 2.2uF, X5R, 10V  | 10%       | 0402                      | TDK Corporation                 | C1005X5R1A225K           | Yes                  | Yes       |
| C4             | 1        | Ceramic Capacitor                                     | 4.7uF, X5R, 6.3V | 20%       | 0402                      | Murata Electronics              | GRM155R60J475ME87D       | Yes                  | Yes       |
| C12,C16        | 2        | Ceramic Capacitor                                     | 33uF, X5R, 16V   | 20%       | 1206                      | TDK Corporation                 | C3216X5R1C336M           | Yes                  | Yes       |
| R2             | 1        | Resistor  | 100.0 ohm        | 1%        | 0402                      | Vishay Dale                     | CRCW0402100RFKED         | Yes                  | Yes       |
| R10            | 1        | Resistor  | 820 ohm          | 5%        | 0603                      | Panasonic                       | ERJ-3GEYJ821V            | Yes                  | Yes       |
| R1,R3,R4       | 3        | Resistor  | 10.0K ohm        | 1%        | 0402                      | Vishay Dale                     | CRCW040210K0FKED         | Yes                  | Yes       |
| R9             | 1        | Resistor  | 220.0K ohm       | 1%        | 0402                      | Vishay Dale                     | CRCW0402220KFKED         | Yes                  | Yes       |
| R7             | 1        | Resistor  | 330.0K ohm       | 1%        | 0402                      | Vishay Dale                     | CRCW0402330KFKED         | Yes                  | Yes       |
| R8             | 1        | Resistor  | 390.0K ohm       | 1%        | 0402                      | Panasonic                       | ERJ-2RKF3903X            | Yes                  | Yes       |
| R6             | 1        | Resistor  | 560.0K ohm       | 1%        | 0402                      | Vishay Dale                     | CRCW0402560KFKED         | Yes                  | Yes       |
| D1             | 1        | LED Green, 0603, 1.7Vf, 2mA If                        | -                | -         | 0603                      | OSRAM Opto Semiconductor        | LG L29K-G2J1-24-Z        | Yes                  | Yes       |
| D2             | 1        | LED Blue Clear, 0603, 2.9Vf, 5mA If                   | -                | -         | 0603                      | Panasonic - SSG                 | LNJ926W8CRA              | Yes                  | Yes       |
| D3             | 1        | Schottky Diode, 20V, 500mA                            | -                | -         | SOD-123                   | ON Semiconductor                | MBR0520LT1G              | No                   | Yes       |
| L1             | 1        | Inductor, +/- 10%, 1210-H, SIMID Series               | 22uH             | 10%       | 1210-H                    | EPCOS Inc                       | B82422H1223K             |                      | Yes       |
| U1             | 1        | BR262W30A103E1G - BR262 SV4, 30 pin WLCSP 0.4mm pitch | -                | -         | WLCSP-30                  | ON Semiconductor                | BR262W30A103E1G          | No                   | Yes       |
| U2             | 1        | CAT25640 - 64Kbit SPI EEPROM                          | -                | -         | SOIC-8                    | ON Semiconductor                | CAT25640VI-G             | No                   | Yes       |
| U3             | 1        | NCP1410 - 3.3V, 250mA Step-Up DC-DC Converter         | -                | -         | Micro8™-8                 | ON Semiconductor                | NCP1410DMR2G             | No                   | Yes       |
| Y1             | 1        | FNGEPO002 2.048MHz Oscillator                         | -                | -         | 4-SMD, No Lead (DFN, LCC) | Pericom                         | FNGEPO002                | Yes                  | Yes       |
| MIC0,MIC1      | 2        | SiSonic Series MEMS Microphone                        | -                | -         | 3.76mm x 2.95mm           | Knowles Acoustics               | SPU0410HR5H-PB           | Yes                  | Yes       |
| SW1            | 1        | AYZ0102AGRLC, AYZ Series SPDT Slider Switch           | -                | -         | Surface Mount             | C&K Components                  | AYZ0102AGRLC             | Yes                  | Yes       |
| ALGO,RESET     | 2        | B3U-3000P-B, Momentary Switch - SMD                   | -                | -         | 3.00mm x 2.50mm           | Omron Electronics               | B3U-3000P-B              | Yes                  | Yes       |
| J1             | 1        | BH2AAA-PC - 2x AAA Battery Holder                     | -                | -         | 51.21mm x 24.51mm         | MPD (Memory Protection Devices) | BH2AAA-PC                | Yes                  | Yes       |
| OUT            | 1        | 3.5mm Stereo Audio Jack                               | -                | -         | 6.00mm x 17.00mm          | CUI Inc.                        | SJ-3523-SMT              | Yes                  | Yes       |
| CLK,GND1,GND2  | 3        | SMT miniature test point, 0.010" terminal             | -                | -         | .01" Pitch                | Keystone Electronics            | 5015                     | Yes                  | Yes       |
| EE,GND,RING    | 3        | 2mm 2pin 1row SMT Male Header                         | -                | -         | 2mm                       | Samtec                          | TMM-102-01-S-S-SM        | Yes                  | Yes       |
| CAA            | 1        | 2mm 4pin 1row SMT Male Header                         | -                | -         | 2mm                       | Samtec                          | TMM-104-01-S-S-SM        | Yes                  | Yes       |
| EE,GND,RING    | 3        | 2mm Shorting Jumpers                                  | -                | -         | 2mm                       | Samtec                          | 2SN-BK-G                 | Yes                  | Yes       |
| N/A            | 1        | 3.5mm Male-Male Stereo Cable                          | -                | -         | -                         | Assmann WSW Components          | AK203/MM-R               | Yes                  | Yes       |
| R5             | 0        | DNI 0402 resistor, DNP                                | -                | -         | -                         | -                               | -                        | Yes                  | Yes       |