**ESP32 5V Breakout BOM**

| Item # | Reference Designator | Qty | Manufacturer | Mfg Part # | Description / Value | Package/Footprint | Type | Instructions / Notes |
|---|---|---|---|---|---|---|---|---|
| 1 | C1,C3,C8,C9,C10,C11 | 6 | Samsung | CL21B104KBCNNWC | Capacitor MLCC 100nF+/-10% 50V X7R 0805 | 0805 | SMD | |
| 2 | C2,C4,C5 | 3 | CDE | AVS476M06B12T-F | Aluminum Electrolytic Capacitors - SMD 47uF 6.3V 20% | 4x5.4mm SMD | SMD | |
| 3 | C6,C7 | 2 | Samsung | CL21B102KBCNNNC | Capacitor MLCC 1nF ±10% 50V X7R 0805 | 0805 | SMD | |
| 4 | H1,H2,H3,H4 | 0 | | | | | | Do Not Populate (mount holes) |
| 5 | J1 | 1 | HOAUC | HYC77-TF09-200 | MicroSD (TF card) SMD SD Card Connectors | | SMD | |
| 6 | J2 | 1 | Sullins | SBH11-PBPC-D10-RA-BK | CONN HEADER R/A 20POS 2.54MM | 20POS | THRU-HOLE | |
| 7 | J3,J4 | 2 | Sullins | PREC015SAAN-RC | CONN HEADER VERT 15POS 2.54MM | 15POS | THRU-HOLE | |
| 8 | J5 | 1 | XKB Connectivity | PJ-320A | 3.5mm headphone jack | 4 Pole TRRS | THRU-HOLE | |
| 9 | J6 | 1 | Sullins | PREC003SAAN-RC | CONN HEADER VERT 3POS 2.54MM | 3POS | THRU-HOLE | User will install a jumper if they need it |
| 10 | R1,R2,R3,R4,R5,R6,R11 | 7 | Panasonic | ERJ-6GEYJ103V | RES SMD 10K OHM 5% 1/8W 0805 | 0805 | SMD | |
| 11 | R7 | 1 | Panasonic | ERJ-6GEY0R00V | RES SMD 0 OHM JUMPER 1/8W 0805 | 0805 | SMD | |
| 12 | R8 | 1 | Panasonic | ERJP06F10R0V | 500mW Thick Film Resistors ±1% 10Ω 0805 | 0805 | SMD | |
| 13 | R9,R10 | 2 | Panasonic | ERJ6GEYJ752V | 125mW Thick Film Resistors ±5% 7.5kΩ 0805 | 0805 | SMD | |
| 14 | U1 | 2 | Sullins | PPTC151LFBN-RC | CONN HDR 15POS 0.1 TIN PCB | 15POS | THRU-HOLE | Two 15 pin female headers are installed so the user can plug in ESP32_DevKit_V1_DOIT module. For best alignment plug an ESP32 module into the headers and then solder to PCB. |
| 15 | U2 | 1 | Texas Instruments | TXS0108EPWR | Translation - Voltage Levels 8B Bidir Vltg-Level Translator | TSSOP-20 | SMD | |
| 16 | U3 | 1 | Texas Instruments | TXS0104EPWR | Translation - Voltage Levels 4B Bidir Vltg-Level Translator | TSSOP-14 | SMD | |
| 17 | U4 | 1 | Princeton Tech | PT8211-S | Digital To Analog Converter | SOIC-8 | SMD | |