

## ESP32-E22 V 2.1.0

| lfd.Nr. | Qty | Type                   | Value             | Reference      | Info   |
|---------|-----|------------------------|-------------------|----------------|--|
| 1       | 1   | ESP32-Modul            | ESP32-DevKitC     | U1             | ...  |
| 2       | 1   | LoRa-Funkmodul         | E22-400M33S       | U3             | ...M30S = 30dBm = 1W bzw. ...M33S = 33dBm = 2W   |
| 3       | 1   | OLED-Display           | DM-OLED096-636    | U2             | !!! auf das Pinning achten: VCC GND SCL SDA  |
| 4       | 1   | USB-C Adapter Board    | vertical          | J2             | Aliexpress <a href="https://de.aliexpress.com/item/1005007821332638.html">https://de.aliexpress.com/item/1005007821332638.html</a> |
| 5       | 1   | USB-C Gehäusebuchse    |                   |                | Aliexpress <a href="https://de.aliexpress.com/item/1005005388486563.html">https://de.aliexpress.com/item/1005005388486563.html</a> |
| 6       | 1   | SMA-Buchse             | SMA               | J8             | SMA_AmphenoL_132134-14_Vertical  |
| 7       | 5   | Keramik-Kondensator    | 100 nF            | C1,C4,C5,C7,C8 | Capacitor_THT:C_Disc_D4.7mm_W2.5mm_P5.00mm   |
| 8       | 1   | Elektrolyt-Kondensator | 10 µF / 10V       | C2             | Capacitor_THT:CP_Radial_D6.3mm_P2.50mm   |
| 9       | 2   | Elektrolyt-Kondensator | 470 µF / 10V      | C3,C6          | Capacitor_THT:CP_Radial_D5.0mm_P2.50mm   |
| 10      | 2   | Schottky-Diode         | 1N5817            | D1,D2          | Diode_THT:D_DO-41_SOD81_P7.62mm_Horizontal   |
| 11      | 1   | ESD-Schutz-Diode       | LESD5D5.0CT1G     | D3             | Diode_SMD:D_SOD-523  |
| 12      | 4   | Widerstand             | 5k1               | R1,R2,R3,R4    | Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal  |
| 13      | 1   | Widerstand             | 4k7               | R5             | Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal  |
| 14      | 2   | Widerstand             | 10k               | R6,R7          | Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal  |
| 15      | 1   | Jumper                 | 0R                | R8             | Resistor_SMD:R_0805_2012Metric   |
| 16      | 1   | Taster                 |                   | SW1            | Button_Switch_THT:SW_PUSH_6mm  |
| 17      | 1   | Schraubklemme          | 2-pol             | J1             | TerminalBlock_Phoenix_MKDS-1,5-2-5.08_1x02_P5.08mm_Horizontal  |
| 18      | 2   | St-/Bu-Leiste          | Conn_01x02_Socket | J3,J9          | PinHeader_1x02_P2.54mm_Vertical  |
| 19      | 1   | St-/Bu-Leiste          | Conn_01x03_Socket | J5             | PinHeader_1x03_P2.54mm_Vertical  |
| 20      | 3   | St-/Bu-Leiste          | Conn_01x04_Socket | J4,J6,J7       | PinHeader_1x04_P2.54mm_Vertical  |
| 21      | 1   | PCB                    | ESP32-E22 V2.1.0  |                |  |
| 22      | 1   | Gehäuse                | 120x80x60         | 6U07120806017  | Reichelt #340515 od. transparenter Deckel #340524 (6U07120806437)  |
| 23      | 4   | Schraube               | M2x6 (M2x8)       |                | siehe "Modellbauschrauben"   |
| 24      | 4   | Einpressmutter         | M2x4xØ3,5         |                | versch. Lieferanten  |
| 25      | 1   | USB-C Buchse           |                   |                | Gehäusemontage   |
|         |     |                        |                   |                | fehlende Angabe, Bezugshinweise, Optionen, Links ... folgen  |