













| Comment | Description | Designator | Footprint | LibRef | Quantity |
|---------------------|-------------|---|------------------------------|---|----------|
| Capacitor-0603 | | C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C37, C32, C34, C35, C36, C36, C36, C37, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C56, C57, C58 | 0603 | Capacitor-0603 | 55 |
| Capacitor-0805 | | C37, C39, C55 | 0603 | Capacitor-0, Capacitor, Capacitor-0 | 3 |
| Capacitor-0805 | | C59, C62 | 0805 | Capacitor | 2 |
| 电解电容 | | C60, C61 | 钽电容1206(A3216) | 电解电容 | 2 |
| EC16编码器 | | J1, J2, J3, J4 | EC16 | EC16编码器 | 4 |
| DB25 | | J5 | DB25母头 | DB25 | 1 |
| 按键 | | K1 | 贴片按键 | 按键 | 1 |
| 按键 | | K2, K3 | 2MM接线端子 | 按键 | 2 |
| Inductor | | L1, L2, L3, L4, L5, L6, L7 | 0805 | Inductor, Inductor, Inductor, Inductor, Inductor, Inductor, Ind | 7 |
| LED | | LED1 | LED-0805 | LED | 1 |
| 端子 | | P1 | 2MM接线端子 | 端子 | 1 |
| 端子3 | | P2, P3, P4, P5 | 3MM接线端子 | 端子3 | 4 |
| BC847 | | Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9 | BC847B | BC847 | 9 |
| Resistor-0603 | | R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51 | 0603 | Resistor-0603 | 43 |
| Resistor-0805 | | R16, R17, R18, R19, R20, R21, R22, R23 | 0603 | Resistor-0 | 8 |
| 74LVC4245 | | U1, U3, U5 | 74LVC4245-PW | 74LVC4245 | 3 |
| AD9851 | | U2, U6 | AD9851 | AD9851 | 2 |
| X9C104数字电位器 | | U4 | X9C104 | X9C104数字电位器 | 1 |
| STM32F407ZGT6 | | U7 | Stm32f407ZET6 - duplicate | STM32F407ZET6 | 1 |
| JTAG | | U8 | JTAG-20 | J | 1 |
| AT24C02 | | U9 | AT24C02 | AT24C02 | 1 |
| OLED | | U10 | OLED | 0 | 1 |
| LT1963 | | U11 | LT1963 | L | 1 |
| 有源晶振 | | X1, X2 | 有源晶振7050 | 有源晶振 | 2 |
| 3225无源晶振 | | X3 | 3225无源晶振 | 3225无源晶振 | 1 |
| - 1-7 G WAT HIS WAY | | - | > G v v mm 4/90 | / Gv/r pp VM | |
| | 1 | | | | |