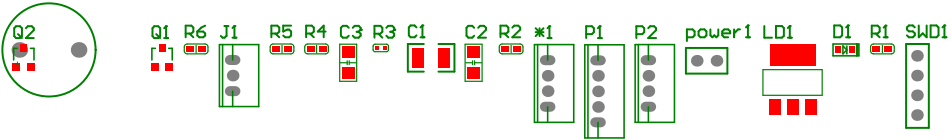
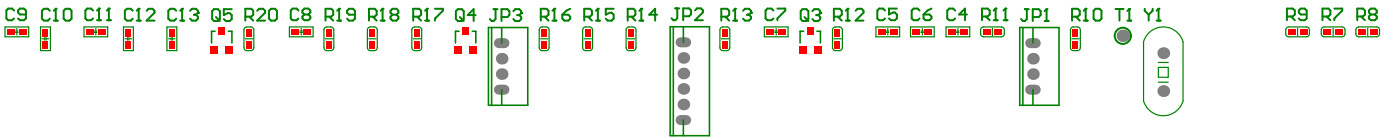


|            |                        |           |
|------------|------------------------|-----------|
| Title      |                        |           |
| Size<br>A2 | Number                 | Revision  |
| Date:      | 2018/7/31              | Sheet of  |
| File:      | C:\Users\Sheet1\SchDoc | Drawn By: |

B1



U1



# Bill of Materials

<Parameter Title not found>

Source Data From: STM32F103C8T6.PrjPcb  
Project: STM32F103C8T6.PrjPcb  
Variant: None

Creation Date: 2018/7/31 17:04:59  
Print Date: 43312 43312.71194

| Footprint         | Comment           | LibRef            | Designator                    | Description                   | Quantity |
|-------------------|-------------------|-------------------|-------------------------------|-------------------------------|----------|
| PH2.0*4           | PH2.0*4           | PH2.0*4           | *1                            |                               | 1        |
| Beep              | BEEP              | Motor             | B1                            | Motor, General Kind           | 1        |
| 1210              | 100uF             | Cap2              | C1                            | Capacitor                     | 1        |
| C1206             | 10uF              | Cap               | C2, C3                        | Capacitor                     | 2        |
| C0603             | 104               | Cap               | C4, C9, C10, C11, C12, C13    | Capacitor                     | 6        |
| C0603             | 22                | C                 | C5, C6                        |                               | 2        |
| C0603             | 105               | Cap               | C7, C8, C14, C15, C17         | Capacitor                     | 5        |
| R0603             | 105               | Cap               | C16                           | Capacitor                     | 1        |
| LED_0603          | LED0              | LED0              | D1                            | Typical INFRARED GaAs LED     | 1        |
| PH2.0*3           | PH2.0*3           | PH2.0*3           | J1                            |                               | 1        |
| PNP-SOT-23        | Encoder           | Header 3          | J2                            | Header, 3-Pin                 | 1        |
| PH2.0*4           | CLEAR             | Header 4          | JP1                           | Header, 4-Pin                 | 1        |
| PH2.0*6           | IR_IN             | Header 6          | JP2                           | Header, 6-Pin                 | 1        |
| PH2.0*4           | IR_OUT            | Header 4          | JP3                           | Header, 4-Pin                 | 1        |
| LD1117S33T        | SOT-223           | LD1117S33TR       | LD1                           | SOT-223                       | 1        |
| R                 |                   |                   |                               |                               |          |
| PH2.0*5           |                   | Header 5          | P1                            | Header, 5-Pin                 | 1        |
| PH2.0*4           |                   | Header 4          | P2                            | Header, 4-Pin                 | 1        |
| 2PIN_PITCH_2.54MM | 2PIN_PITCH_2.54MM | 2PIN_PITCH_2.54MM | power1                        |                               | 1        |
| PNP-SOT-23        | 9012              | 2N3906            | Q1                            | PNP General Purpose Amplifier | 1        |
| PNP-SOT-23        | S9013             | S9013             | Q2                            |                               | 1        |
| PNP-SOT-23        | S9012             | 2N3906            | Q3, Q4, Q5, Q6, Q7            | PNP General Purpose Amplifier | 5        |
| R0603             | 5K1               | Res1              | R1, R2, R4, R5, R10, R15, R16 | Resistor                      | 7        |
| R0402             | 4.70k             | Res1              | R3                            | Resistor                      | 1        |
| R0603             | 150R              | Res1              | R6, R30                       | Resistor                      | 2        |
| R0603             | 2K                | Res1              | R7, R8, R26                   | Resistor                      | 3        |
| R0603             | 30K               | Res1              | R9                            | Resistor                      | 1        |
| R0603             | 1M                | R                 | R11                           |                               | 1        |
| R0603             | 200               | Res1              | R12                           | Resistor                      | 1        |
| R0603             | 51K               | Res1              | R13, R18, R20, R23, R25, R31  | Resistor                      | 6        |
| R0603             | 10K               | Res Semi          | R14, R19, R21                 | Semiconductor Resistor        | 3        |
| R0603             | 150               | Res1              | R17, R22                      | Resistor                      | 2        |
| R0603             | 10                | Res1              | R24                           | Resistor                      | 1        |
| R0603             | 300K              | Res1              | R27                           | Resistor                      | 1        |
| R0603             | 47K               | Res1              | R28                           | Resistor                      | 1        |
| R0603             | 1K                | Res1              | R29                           | Resistor                      | 1        |
| R0603             | 0R                | Res1              | R32                           | Resistor                      | 1        |
| HEADER4_2.54MM    | HEADER4_2.54MM    | HEADER4_2.54MM    | SWD1                          |                               | 1        |
| 测试点               | CLEAR             | DIAN              | T1                            |                               | 1        |
| 测试点               | MP                | DIAN              | T2                            |                               | 1        |
| STM32F103_48P     | STM32F103-LQFP48  | STM32F103-LQFP48  | U1                            |                               | 1        |
| LM393             | LM393             | LM393             | U2                            |                               | 1        |
| XTAL8M            | 8MHz              | XTAL              | Y1                            | Crystal Oscillator            | 1        |

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| Approved | Notes |
|----------|-------|
|          |       |
|          |       |
|          |       |