J1

J2
1 +3.3V
2 SPI_MOSI
3 SPI_MISO
4 SPI_CLK
5 LCD_DC
6 LCD_CS
7 LCD_RST
8 LCD_LED_PWM
9 GP_GP1        TP1
10 GP_GP0       TP2
11 UART_RX      TP3
12 UART_TX      TP4
13 0V           TP5
14 0V

DS1   JD-T18003
1  NC
2  GND      0V
3  LEDK     LCD_LED_K
4  LEDA     +3.3V
5  GND      0V
6  RESET    LCD_RST
7  RS       LCD_DC
8  SDA      SPI_MOSI
9  SCL      SPI_CLK
10 VCC
11 VCC      +3.3V
12 CS       LCD_CS
13 GND
14 NC       0V

R1
3R

Q1
2N7002
LCD_LED_PWM

C1   C2
100n  1u

R2
100k

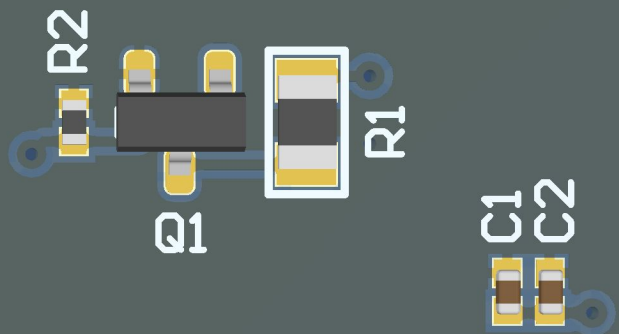| Designator | Part Description | Footprint | Part Number | Quantity |
|---|---|---|---|---|
| DS1 | 1.8" SPI TFT display, 160x128 18-bit color - ST7735R driver | JD_T18003 | JD_T18003 | 1 |
| J1, J2 | 2mm Pin Strip Header, 951 Series | 3M_951114-8622-AR | 3M_951114-8622-AR | 2 |
| Q1 | 60V 280mA N-Channel Enhancement Mode Field Effect Transistor (FET) | SOT95P240X130-3N | 2N7002 | 1 |
| C1 | SMD Multilayer Chip Ceramic Capacitor | CAPC1005X55N | CC0402_100NF_16V_10%_X7R | 1 |
| C2 | SMD Multilayer Chip Ceramic Capacitor | CAPC1005X55N | CC0402_1UF_6.3V_20%_X5R | 1 |
| R1 | General Purpose Thick Film Chip Resistor | RESC2012X60N | R0805_3R_1%_0.125W_200PPM | 1 |
| R2 | General Purpose Thick Film Chip Resistor | RESC1005X40N | R0402_100K_1%_0.0625W_100PPM | 1 |
| TP1, TP2, TP3, TP4, TP5 | 0.8mm round SMD Pad | TP_SMD_800 | TP_SMD_0.8MM | 5 |

DS1

J2

J1

⊛ DEL

PS3604LD V2.0

R2

R1

Q1

C1
C2

TP1

TP2

TP3

TP4

TP5