GND

U1
1 INT   EP 17
2 MS/CS   NC 16
3 SCL/SCLK   VDD 15
4 NC   NC 14
5 SDA/MOSI   VSS 13
6 MISO   A0 12
7 INT/TRG   A1 11
8 VDD_IO   NC 10
            NC 9
MLX90393ELW-ABA-011-SP

MAG0_INT
VCC_3V3
I2C0_SCL
I2C0_SDA
MAG0_TRIG
VCC_3V3

C1 100nF (104) 10% 16V
VCC_3V3
GND

IIC ADDR SELECT: 0x00
GND
GND

C3
100nF (104) 10% 16V
GND

GND

U2
1 INT   EP 17
2 MS/CS   NC 16
3 SCL/SCLK   VDD 15
4 NC   NC 14
5 SDA/MOSI   VSS 13
6 MISO   A0 12
7 INT/TRG   A1 11
8 VDD_IO   NC 10
            NC 9
MLX90393ELW-ABA-011-SP

MAG1_INT
VCC_3V3
I2C0_SCL
I2C0_SDA
MAG1_TRIG
VCC_3V3

C2
100nF (104) 10% 16V
VCC_3V3
GND
VCC_3V3
GND

C4
100nF (104) 10% 16V
GND

GND

U3
1 INT   EP 17
2 MS/CS   NC 16
3 SCL/SCLK   VDD 15
4 NC   NC 14
5 SDA/MOSI   VSS 13
6 MISO   A0 12
7 INT/TRG   A1 11
8 VDD_IO   NC 10
            NC 9
MLX90393ELW-ABA-011-SP

MAG2_INT
VCC_3V3
I2C0_SCL
I2C0_SDA
MAG2_TRIG
VCC_3V3

C5
100nF (104) 10% 16V
VCC_3V3
GND
GND
VCC_3V3

C7
100nF (104) 10% 16V
GND

GND

U4
1 INT   EP 17
2 MS/CS   NC 16
3 SCL/SCLK   VDD 15
4 NC   NC 14
5 SDA/MOSI   VSS 13
6 MISO   A0 12
7 INT/TRG   A1 11
8 VDD_IO   NC 10
            NC 9
MLX90393ELW-ABA-011-SP

MAG3_INT
VCC_3V3
I2C0_SCL
I2C0_SDA
MAG3_TRIG
VCC_3V3

C6
100nF (104) 10% 16V
VCC_3V3
GND
VCC_3V3
VCC_3V3

C8
100nF (104) 10% 16V
GND

R1
VCC_3V3   I2C0_SCL
10KΩ (1002) ±1%

R2
VCC_3V3   I2C0_SDA
10KΩ (1002) ±1%

Title			
Size A4	Number		Revision
Date:	5/22/2023		Sheet of
File:	D:\4年计划\..\merci_main.SchDoc		Drawn By:
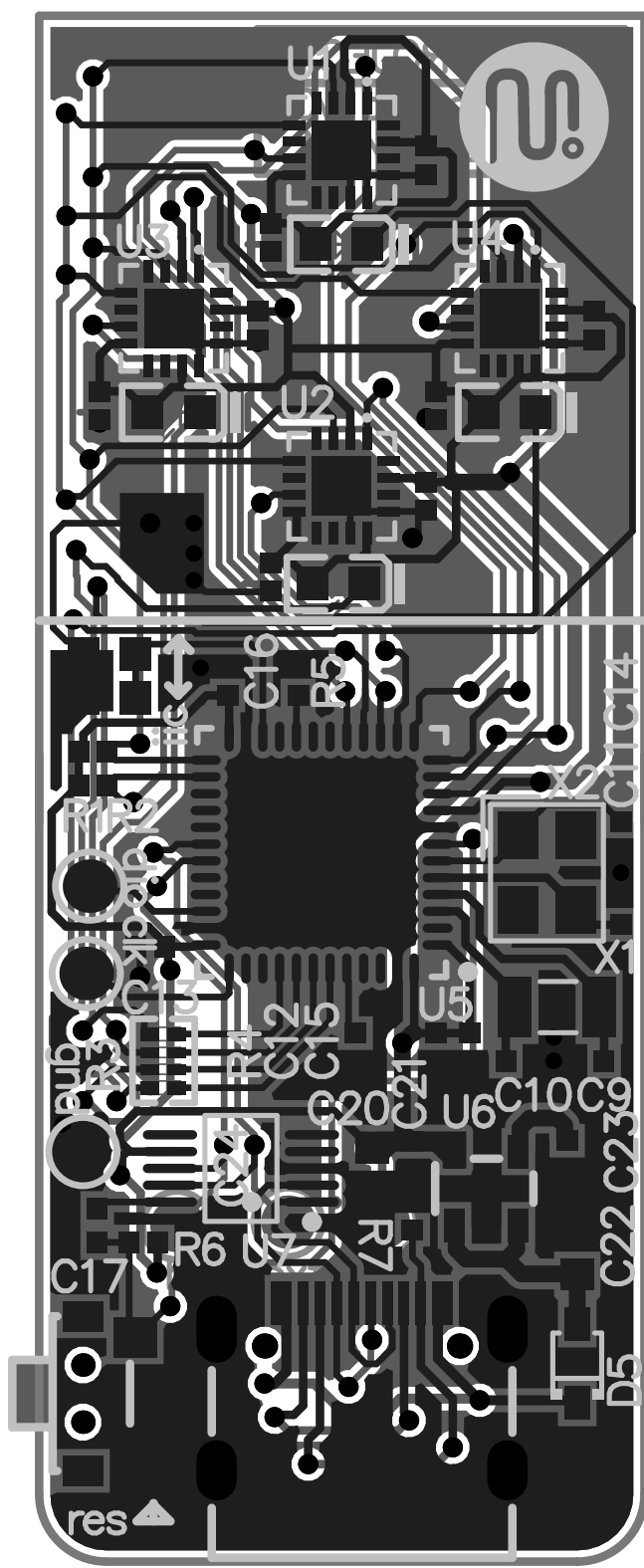
Comment	Description	Designator	Footprint	LibRef	Quantity
100nF (104) 10% 16V	贴片电容	C1, C2, C3, C4, C5, C6, C7, C8, C12, C13, C15, C16, C17, C21, C24	LC-0402_C_NOSILK	0402 100nF (104) 10% 16V	15
12pF (120) 5% 50V	贴片电容	C9, C10, C11, C14	LC-0402_C_NOSILK	0402 12pF (120) 5% 50V	4
2.2uF (225) 10% 16V	贴片电容	C18, C19, C20	LC-0603_C_NOSILK	0603 2.2uF (225) 10% 16V	3
1uF (105) 10% 50V	贴片电容	C22	LC-0603_C_NOSILK	0603 1uF (105) 10% 50V	1
10nF (103) 10% 50V	贴片电容	C23	LC-0402_C_NOSILK	0402 10nF (103) 10% 50V	1
白灯 0603	发光二极管	D1, D2, D3, D4	LC-0603_LED_S1	0603 白灯	4
1N5819	肖特基二极管	D5	SOD-323_L1.8-W1.3-LS2.5-RD	1N5819	1
10KΩ (1002) ±1%	贴片电阻	R1, R2, R4, R5, R6	LC-0402_R_NOSILK	0402 10KΩ (1002) 1%	5
10KΩ (103) ±5%	贴片排阻	R3	LC-0402_Rx4	0402*4 10KΩ (103) 5%	1
5.1KΩ (5101) ±1%	贴片电阻	R7	LC-0402_R_NOSILK	0402 5.1KΩ (5101) 1%	1
TS24CA	按键	SW1	SW-SMD_TS24CA	TS24CA	1
TEST	测试点	TP1, TP2, TP3, TP4, TP5, TP6	TEST 1.6	TEST	6
MLX90393ELW-ABA-011-SP		U1, U2, U3, U4	QFN-16_L3.0-W3.0-P0.50-TR-EP1.7	MLX90393ELW-ABA-011-SP	4
STM32F411CEU6		U5	UFQFPN-48_L7.0-W7.0-P0.50-BL-EP - duplicate	STM32F411CEU6	1
SPX3819M5-3.3	Vin=16V Vout=3.3V 500mA LDO	U6	SOT-23-5_L2.9-W1.6-P0.95-LS2.8-BL	SPX3819M5-3.3	1
CH340E	ttl-usb芯片	U7	MSOP-10_L3.0-W3.0-P0.50-LS5.0-BL	CH340E	1
TYPE-C-31-M-12	贴片type-c母座	USBC1	USB-C_SMD-TYPE-C-31-M-12	TYPE-C-31-M-12	1
FC-135 32.7680KA-A0		X1	CRYSTAL-SMD_L3.2-W1.5-FC-135R32.7680KF-A3	FC-135 32.7680KA-A0	1
8MHz		X2	CRYSTAL-SMD_4P-L3.2-W2.5-BL	8MHz	1