



three 1.5V AA batteries

An AA alkaline battery yields a nominal capacity of 2850 mAh

$14V \cdot 50mA \cdot 0.75 = 525mW$ load
 $525mW / 0.9 = 583mW$ DC-DC input
 $600mW / 4.5V = 133mA$ battery current
 $2850mAh / 133mA = 21.375h$ battery life

DIYTZT 2.4" 2.42 inch 128x64 Yellow OLED Display Module
SSD1309 12864 7 Pin SPI/IIC I2C Serial Interface
for Arduino UNO R3 C51



Projected type

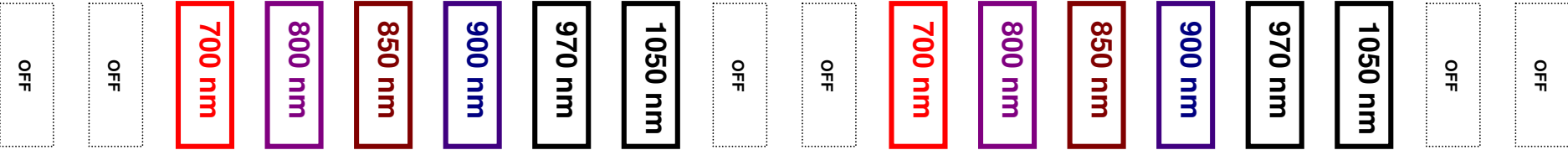
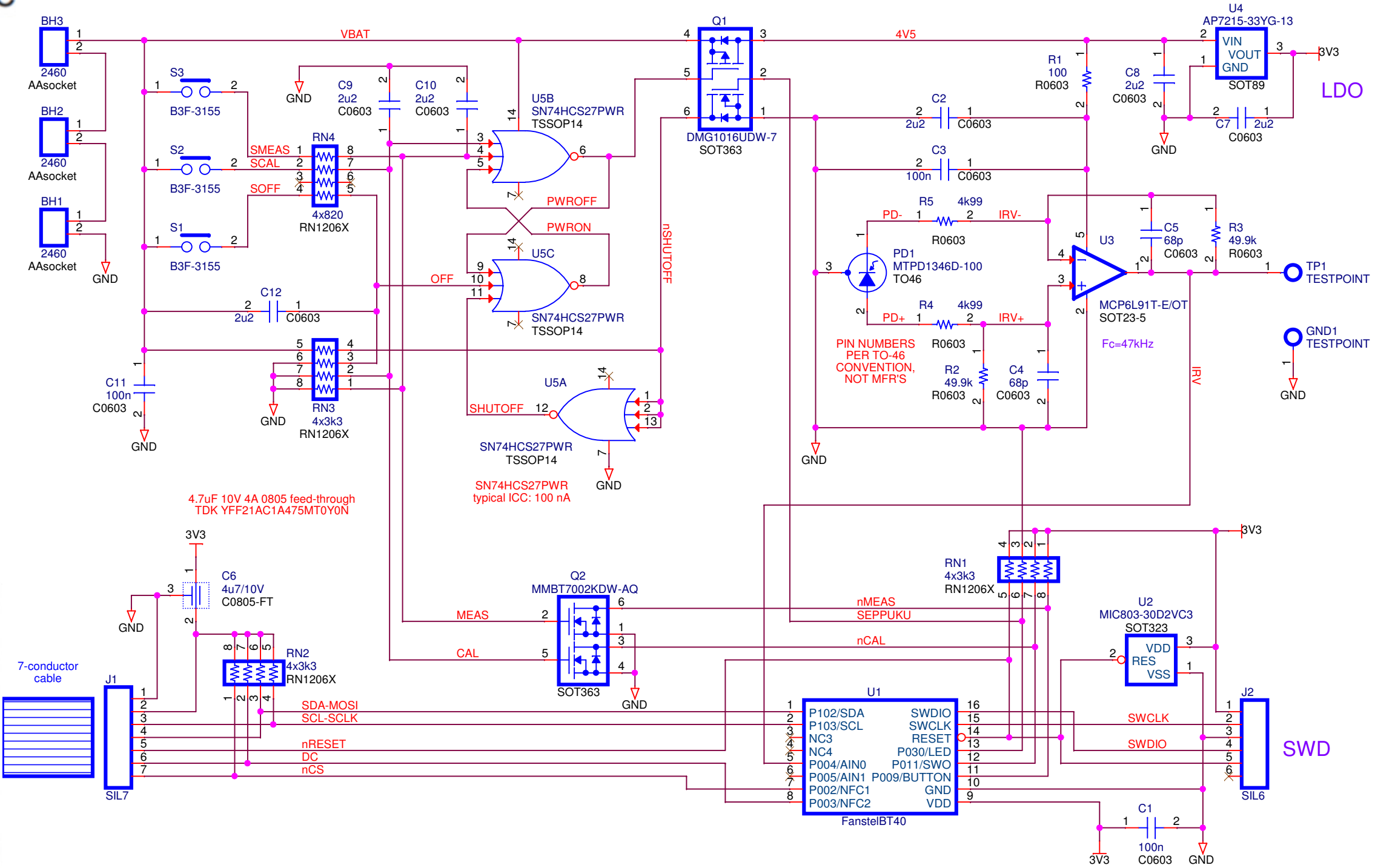


Omron Tactile Switch

Z1
item
B32-1080 BUTTON CAP RED [S1]

Z2
item
B32-1030 BUTTON CAP YEL [S2]

Z3
item
B32-1040 BUTTON CAP BLU [S3]



the remote sensor "trains" on the red "start bit" after the delay

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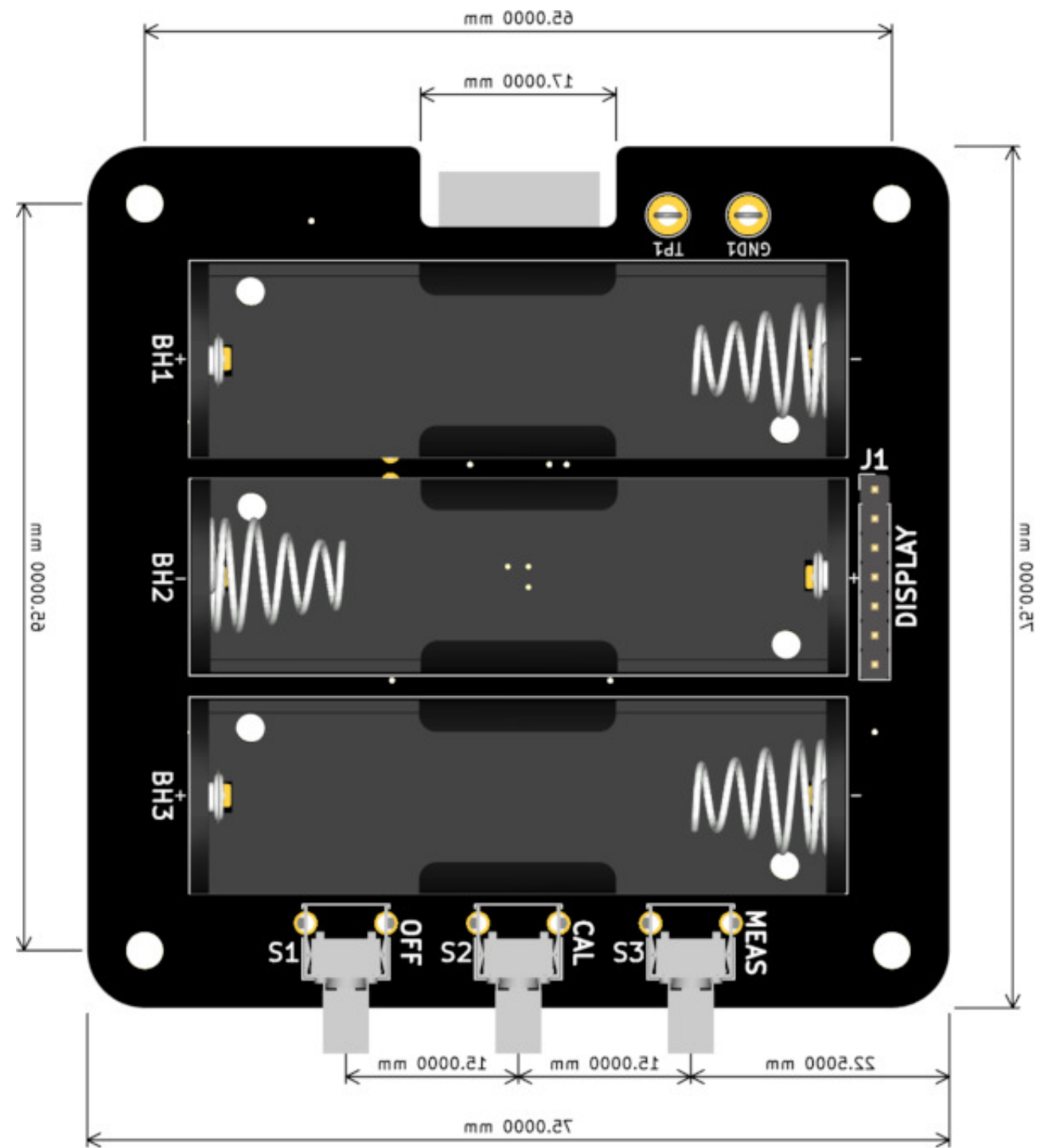
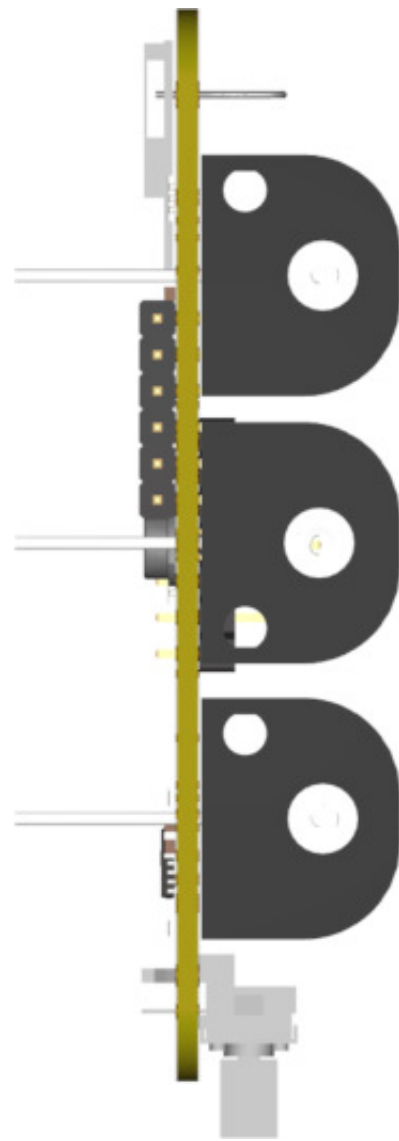
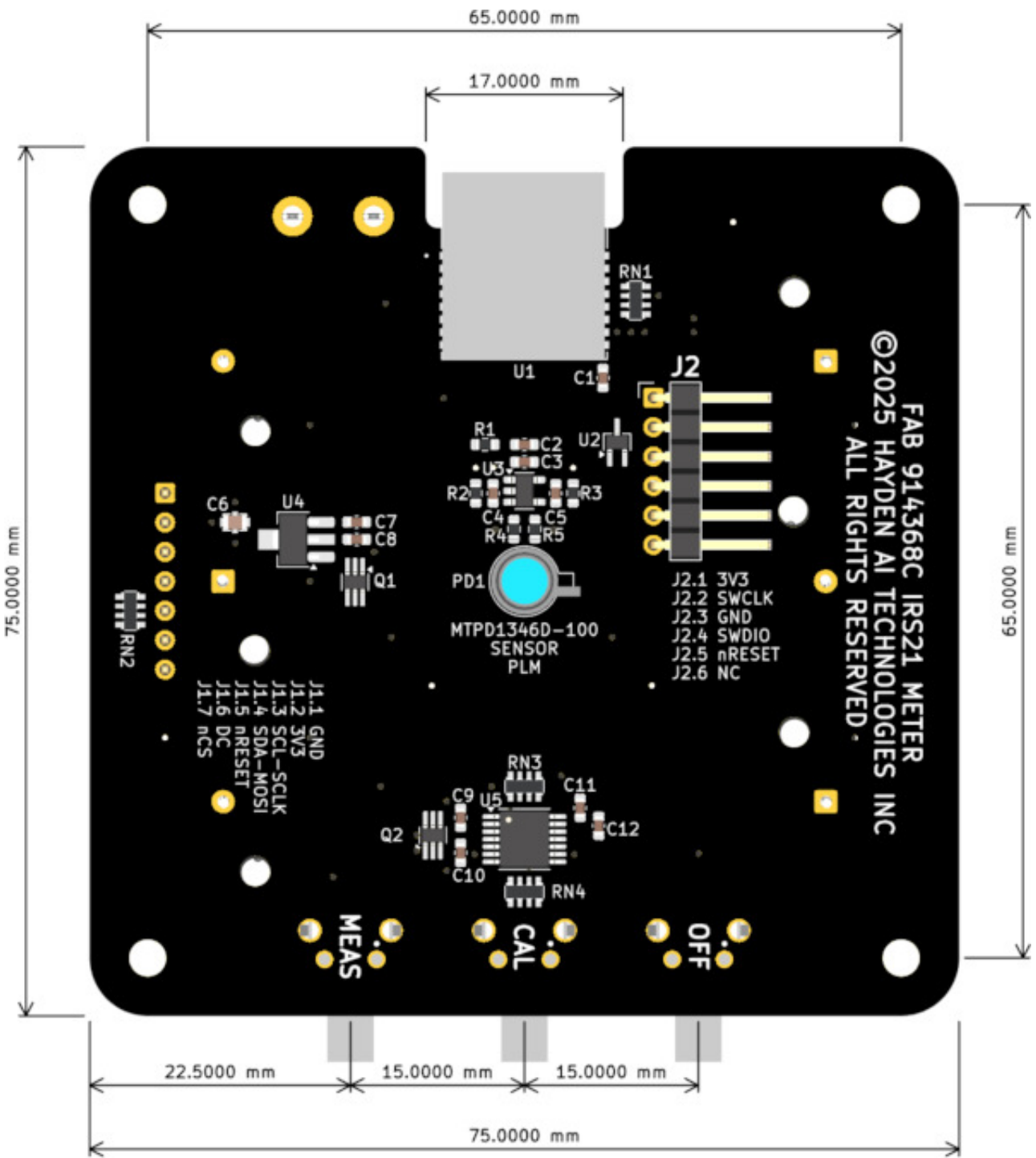
- Z4
item
FAB 914368A
- Z5
item
7-cond SIL cable assy
- Z6
item
TZT 2.4" 128x64 Yellow OLED
- Z7
item
4 ea M3 screw

P.L.McGuire 10 March 2025

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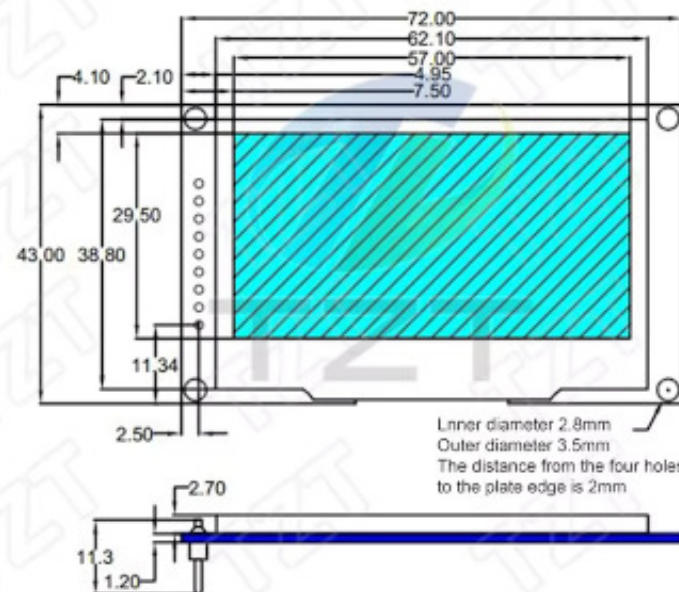
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PRODUCT 2.42 (Blue Board)
Yellow/Blue/Green/White

PRODUCT PARAMETERS

Product name	OLED module
Product size	2.42 inch
Resolving power	128x64
Direction of view	Full perspective
Driving chip	SSD1309
Interface type	68/8080 Parallel port/SPI/I2C
Module size	72*43*5.9(mm)
Display area	57*29.5(mm)
Number of pins	9 pin
working voltage	2.4-3.6V
working temperature	-30~+85℃
Display color	White/Yellow

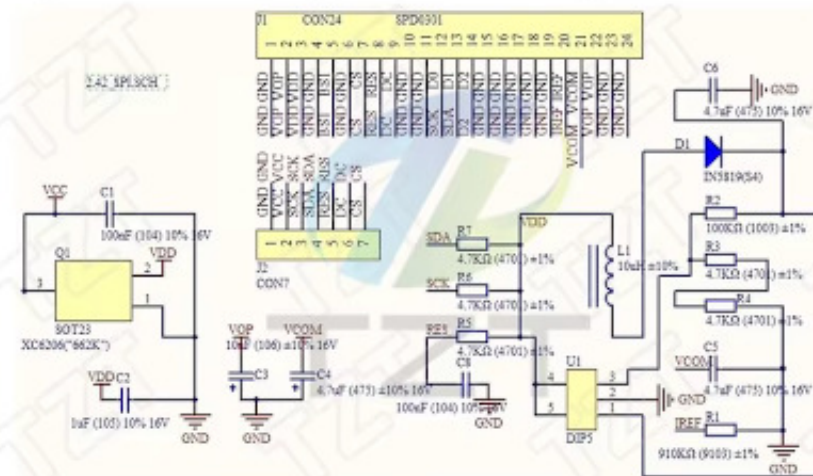
PLANAR STRUCTURE



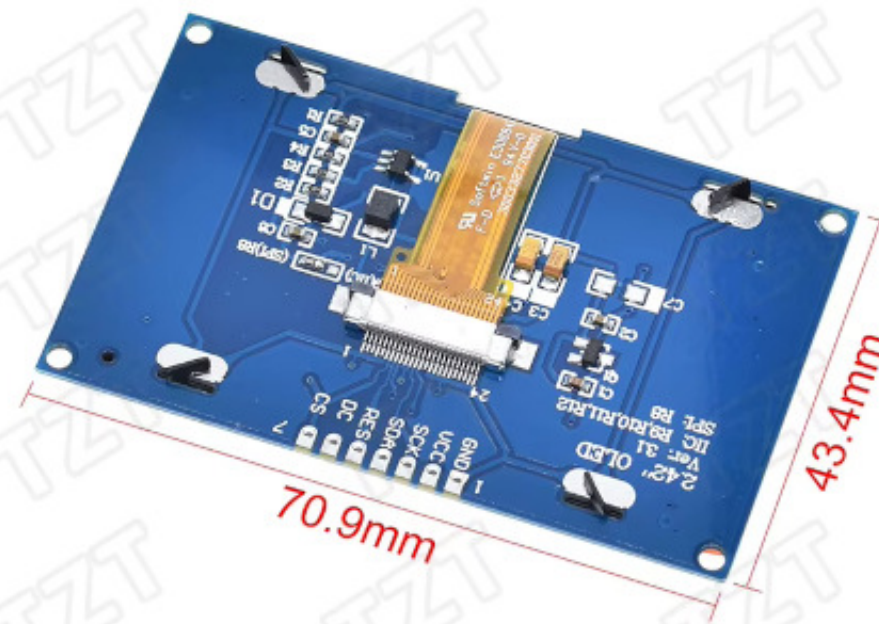
PIN DEFINITION

NO.	Name	Function Description
1	GND	OLED power ground
2	VCC	OLED power positive (3.3V)
3	SCL	OLED SPI clock line
4	SDA	OLED SPI interface data line
5	RES	OLED reset, OLED needs to be reset once after power on

6	DC	SPI data / command selection pin
7	CS1	OLED SPI chip selection, the bottom level is valid, if you don't want to use it, you must ground it
8	FSO	Font data output
9	CS2	CS2 (character library chip SPI chip selection, effective bottom level)



Weight : 37.0g
(with case)



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