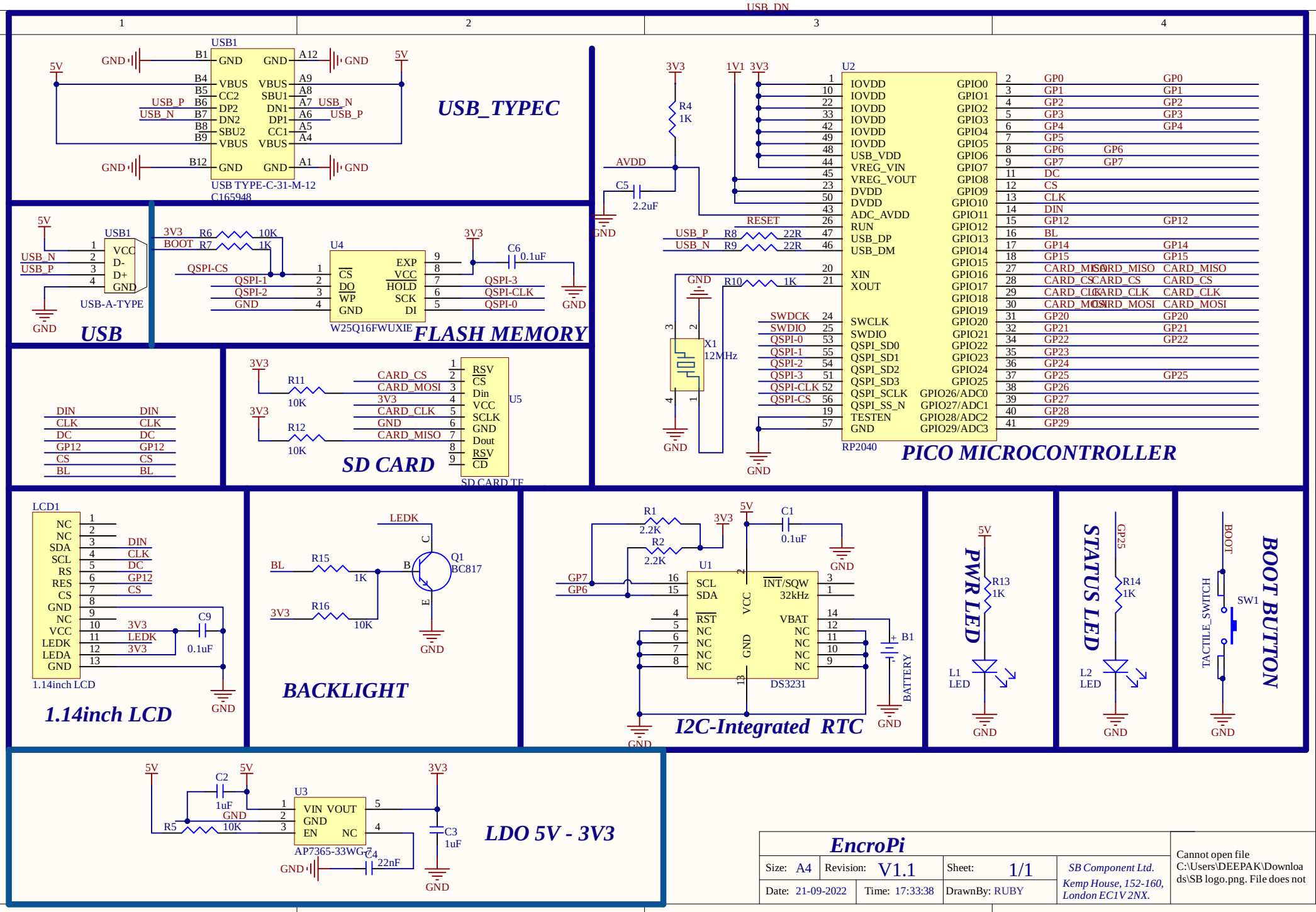
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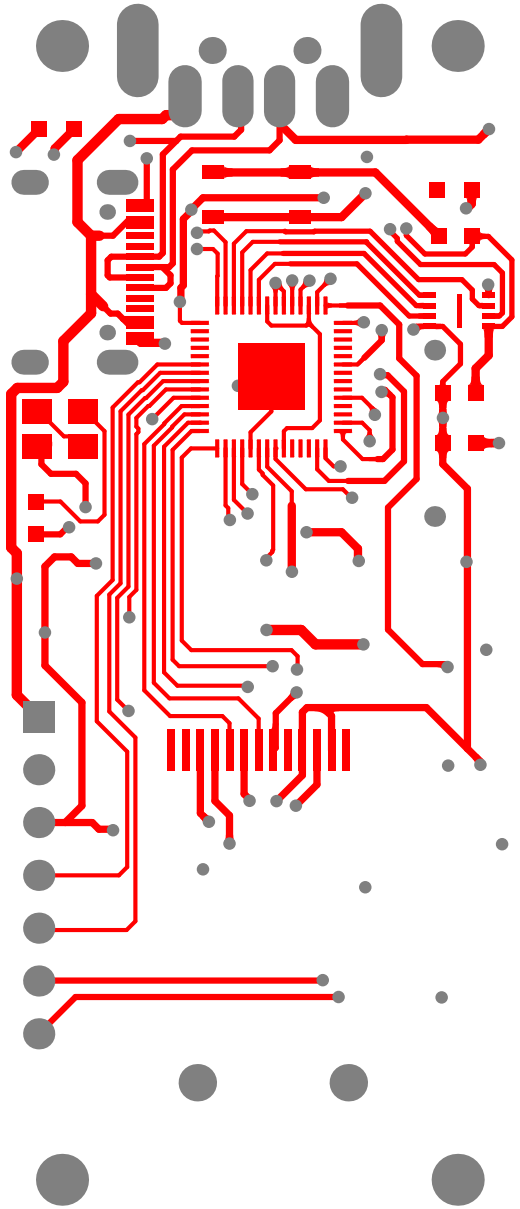
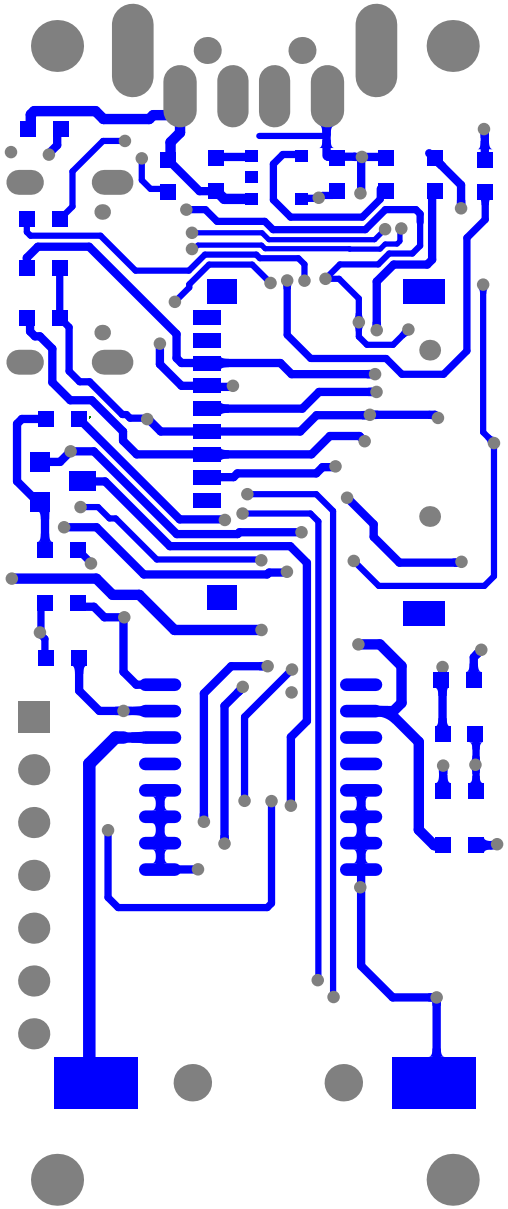
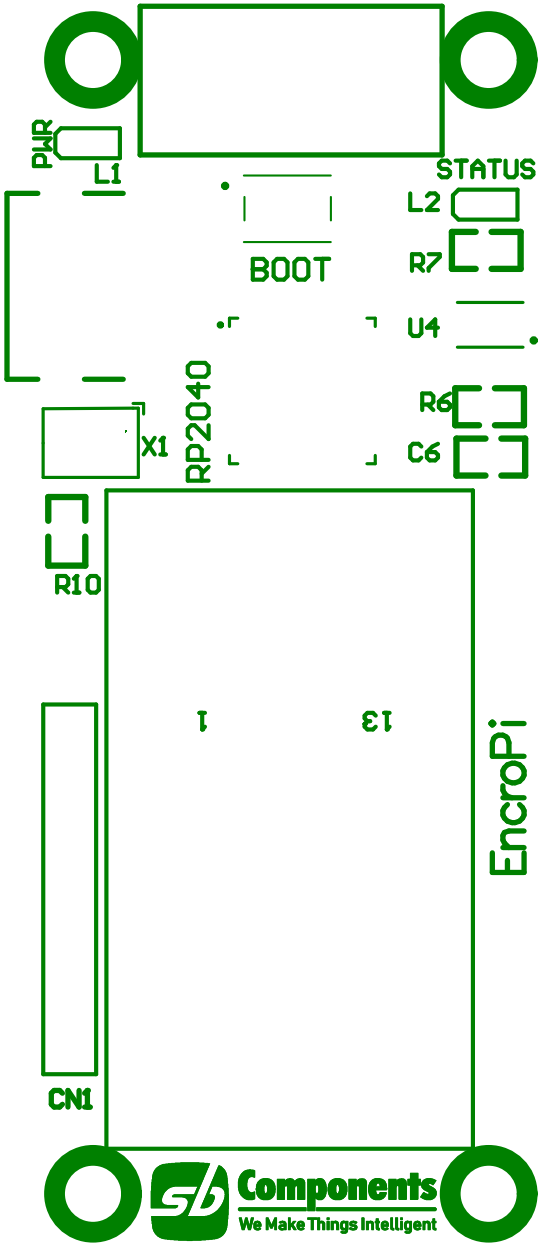
USB1
USB TYPE-C-31-M-12
C165948
USB
USB-A-TYPE
FLASH MEMORY
W25Q16FWUXIE
SD CARD
SD CARD TF
PICO MICROCONTROLLER
RP2040
1.14inch LCD
BACKLIGHT
I2C-Integrated RTC
DS3231
PWR LED
STATUS LED
BOOT BUTTON
LDO 5V - 3V3
AP7365-33WG-7
EncroPi
Size: A4
Revision: V1.1
Sheet: 1/1
Date: 21-09-2022
Time: 17:33:38
DrawnBy: RUBY
SB Component Ltd.
Kemp House, 152-160,
London EC1V 2NX.
Cannot open file C:\Users\DEEPAK\Downloads\SB logo.png. File does not






PWR
L1
STATUS
L2
R7
BOOT
U4
R6
C6
RP2040
X1
R10
1
13
EncroPi
CN1
Components
We Make Things Intelligent

R13
R9
R12
R11
C2
R5
U3
C3
C4
R14
R8
R15
D1
R6
R1
R2
U5
5V
GND
3V3
4SG
3SG
2SG
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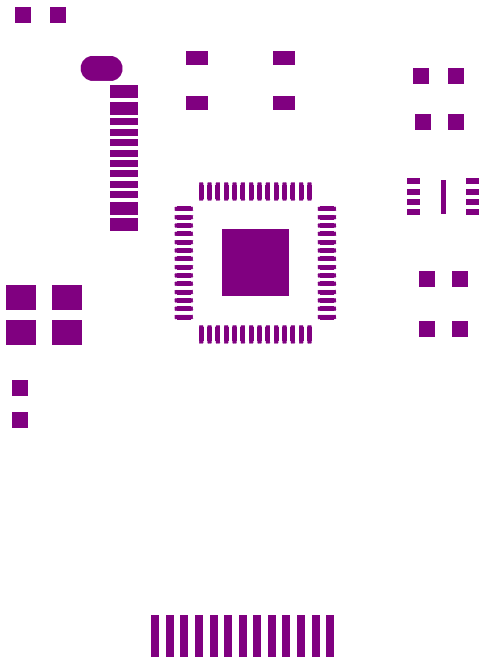
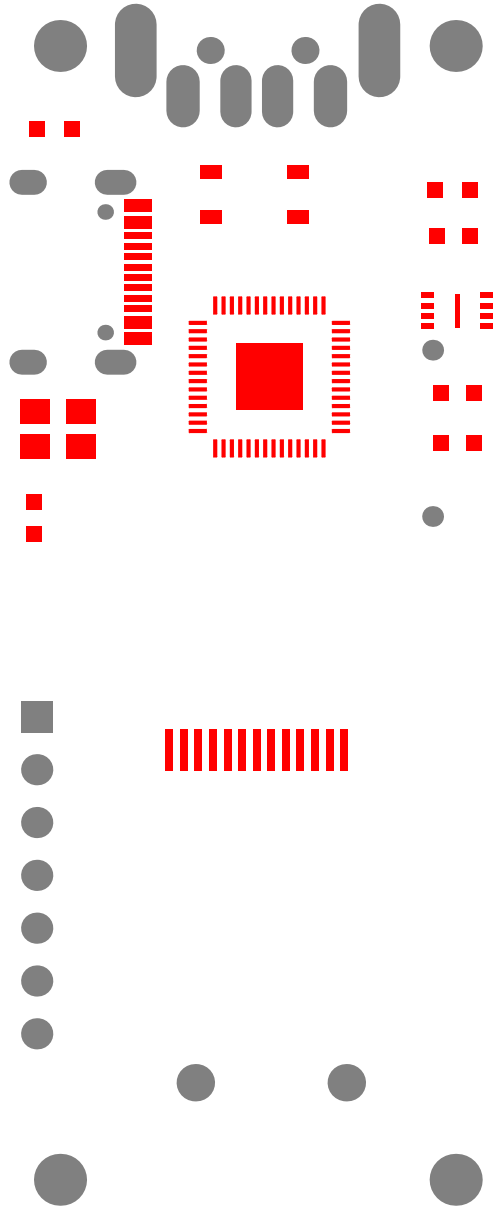
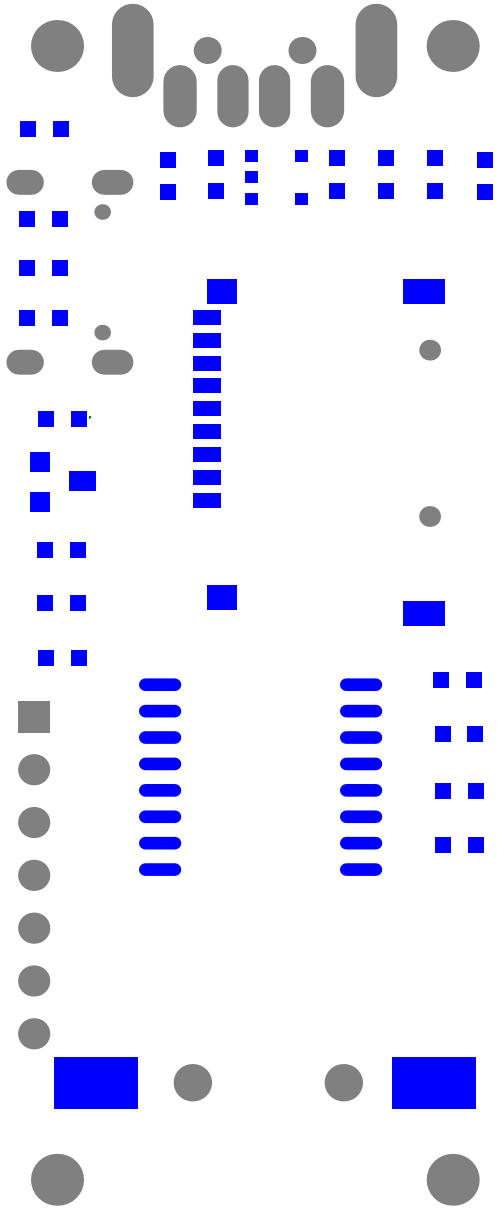
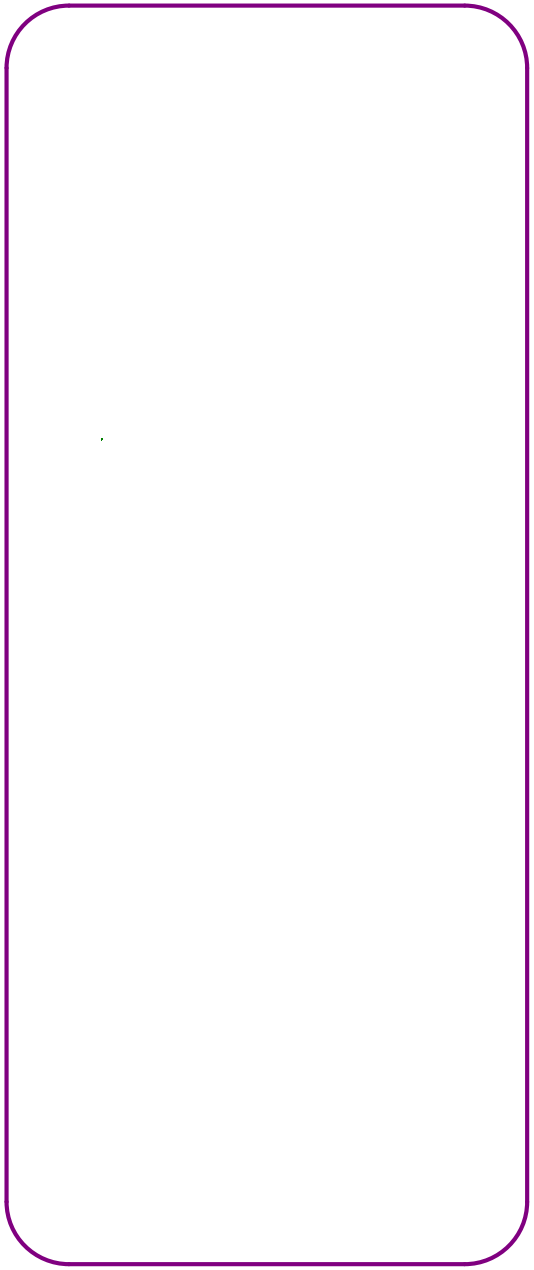
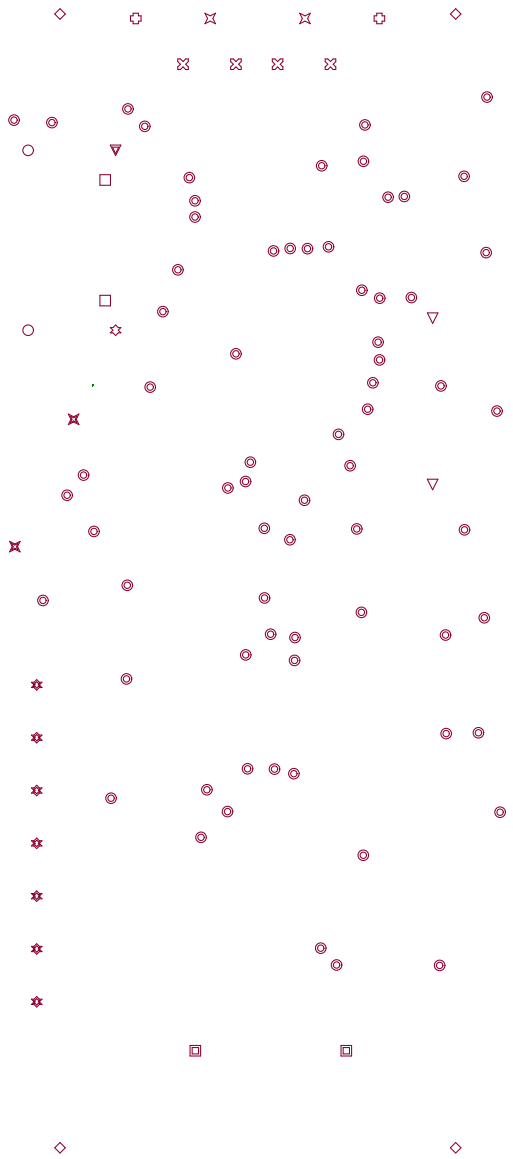
U1
C1
C3
R4
C2
B1
FunTop!

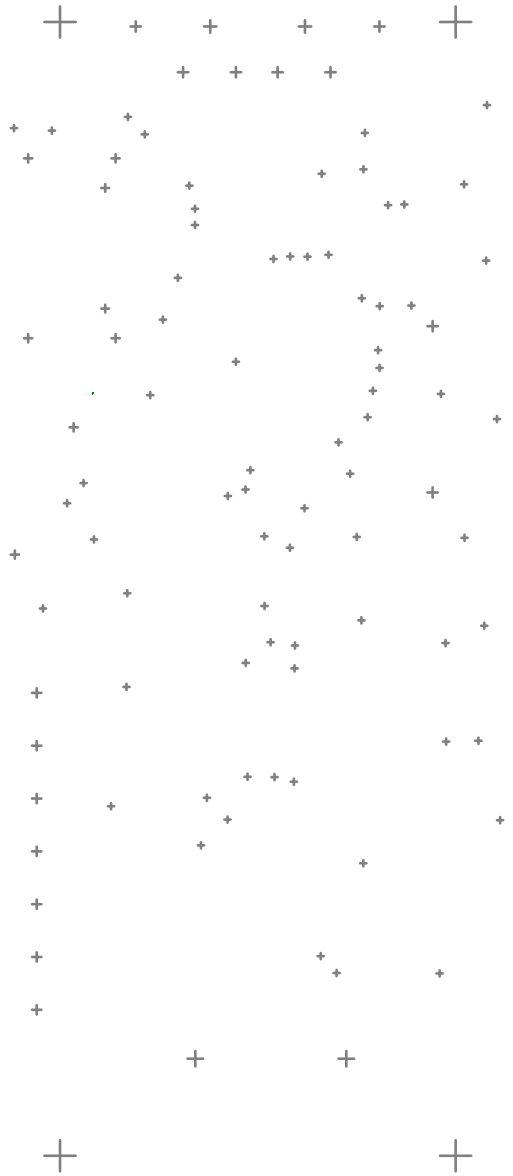












Comment	Description	Designator	Footprint	LibRef	Quantity
BATTERY		B1	Coin Cell Holder-1220	BATTERY	1
0.1uF		C1, C6, C9	CAP_0603_NONPOLAR	CAP_NONPOLAR	3
1uF		C2, C3	CAP_0603_NONPOLAR	CAP_NONPOLAR	2
22nF		C4	CAP_0603_NONPOLAR	CAP_NONPOLAR	1
2.2uF		C5	CAP_0603_NONPOLAR	CAP_NONPOLAR	1
LED		L1, L2	LED_0603_neg	LED	2
1.14inch LCD	1.14inch LCD Display 65K RGB Colors, 240×135 Pixels, SPI Interface	LCD1	1.14 inch LCD C	LCD 1.14INCH	1
BC817		Q1	547_SOT23	TRANSISTER_NPN	1
2.2K		R1, R2	0603	RES	2
1K		R4, R7, R10, R13, R14, R15	0603	RES	6
10K		R5, R6, R11, R12, R16	0603	RES	5
22R		R8, R9	0603	RES	2
TACTILE_SWITCH		SW1	SKRPACE010	TACTILE_SWITCH	1
DS3231	Extremely Accurate I2C-Integrated RTC	U1	SO_16_W	DS3231	1
RP2040	A MICROCONTROLLER BY RPI	U2	QFN-56	RP2040	1
AP7365-33WG-7	600mA CMOS LDO REGULATOR WITH ENABLE SOT-23-5 PACKAGE	U3	SOT-23-5	AP2112	1
W25Q16FWUXIE	FLASH - NOR USON-8_2x3mm ROHS #C401672	U4	USON-8 2X3MM	W25Q16FWUXIE	1
SD CARD TF	Micro SD Memory Card Socket	U5	SD CARD	SD CARD TF	1
USB TYPE-C-31-M-12	250mA 1 16 Female Type-C SMD USB Connectors ROHS # C165948	USB1	USB TYPE-C-31-M-12	USB TYPE-C-31-M-12	1
USB-A-TYPE		USB1	USB-A-Type MALE	USB_CON	1
12MHz	12MHz ±10ppm 12pF 80Ω SMD-3225_4P Crystals RoHS #C70565	X1	CRYSTAL OSC SMD	CRYSTAL_OSCILATOR	1