电源

P1
1
2
3
CON3
VCC
GND

VCC
S1
C1 10uF
R3 10k
RST

VCC
C5 470uF/16V
C6 0.1uF
GND

D3
R9 1K
LED2
VCC
GND

USBASP
J1
MOSI   1   2
RST   3   4
SCK   5   6
       7   8
MISO   9   10
VCC

C4
X1
Y1 11.0592M
C7
X2
30pF
30pF

GND
VR1 10k
VCC
LCD1
1 GND
2 VCC
3 VO
P24   4 RS
P25   5 RW
P26   6 E
P00   7 DB0
P01   8 DB1
P02   9 DB2
P03 10 DB3
P04 11 DB4
P05 12 DB5
P06 13 DB6
P07 14 DB7
VCC 15 BG VCC
     16 BG GND
LCD1602
GND

JP1
232TXD   6
         1
232RXD   7
         2
         8
         3
         9
         4
         5
DB9/F

VCC
C2 0.1uF
C3 0.1uF
GND
VCC
R2 470
D2 LED
A
K
232RXD
P31
C8 0.1uF
U1
13 R1 IN   V+   2
8   R2 IN   V- 16
11 T1 IN VCC
10 T2 IN
1   C1+   GND
3   C1-   C2+ 5
          C2-
R1 OUT 12
R2 OUT 9
T1 OUT 14
T2 OUT 7
MAX232CPE(16)
C9 0.1uF
VCC
R1 470
D1 LED
P30
232TXD

U2
P10   1 P1.0/T   Vcc 40
P11   2 P1.1/T   P0.0 39
P12   3 P1.2   P0.1 38
P13   4 P1.3   P0.2 37
P14   5 P1.4   P0.3 36
MOSI 6 P1.5   P0.4 35
MISO 7 P1.6   P0.5 34
SCK   8 P1.7   P0.6 33
                   P0.7 32
RST   9 RST/VPD
P30 10 P3.0/RXD EA/VPP 31
P31 11 P3.1/TXD ALE/PROG 30
P32 12 P3.2/INT0 PSEN 29
P33 13 P3.3/INT1
P34 14 P3.4/T0   P2.7 28
P35 15 P3.5/T1   P2.6 27
P36 16 P3.6/WR   P2.5 26
P37 17 P3.7/RD   P2.4 25
X2   18 XTAL2   P2.3 24
X1   19 XTAL1   P2.2 23
                   P2.1 22
     20 Gnd   P2.0 21
AT89S52

VCC
R4 Com
10k
P00
P01
P02
P03
P04
P05
P06
P07
R11 0K
VCC

P27
P26
P25
P24
P23
P22
P21
P20

S2 SW-PB P20
S3 SW-PB P21
S4 SW-PB P22
S5 SW-PB P23

VCC
U3 DS1302
1 Vcc2   Vcc 8
2 X1   SCLK 7 P36
3 X2   I/O   6 P34
4 GND   RST   5 P35
Y2 32.768kHz
VCC
R5 10K R6 10K R7 10K
BT1 Battery
GND

GND
U4
1 GND
2 I/O
3 VDD
DS18B20
VCC
R8 10K
P13

VCC
LS1
1
2
Speaker
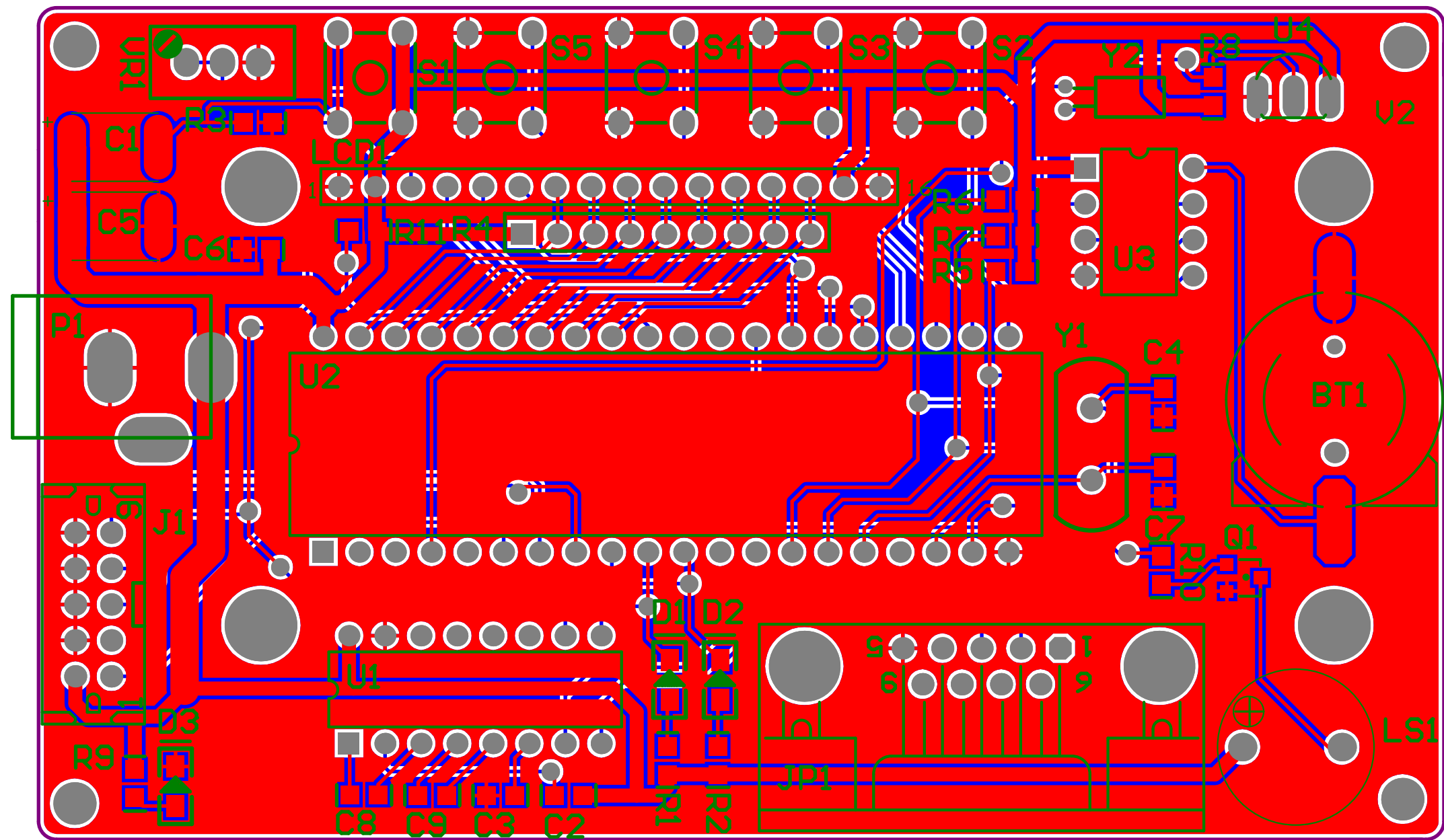Q1 NPN-9013
P27
R10 1K
GND

Q? SS8550 Y2

Title

Size B
Number
Revision

Date: 2018/9/2
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Comment	Designator	Footprint	LibRef	Quantity	Value
Battery	BT1	BATTERY	Battery	1	
10uF	C1	TANC	ELECTRO1	1	
0.1uF	C2, C3, C6, C8, C9	0805	CAP	5	
30pF	C4, C7	0805	CAP	2	
470uF/16V	C5	TANC	EC	1	
LED	D1, D2	LED	LED	2	
LED2	D3	LED12	LED2	1	
USBASP	J1	ISP	HEADER 5X2	1	
DB9/F	JP1	DB9FL	DB9	1	
LCD1602	LCD1	LCD1602	LCD1602	1	
Speaker	LS1	SPEAKER	Speaker	1	
CON3	P1	J1FD	CON3	1	
NPN-9013	Q1	NPN9013	NPN	1	
SS8550 Y2	Q?	SOT-23(SOT-23-3)	SOT-23 SS8550 Y2	1	
470	R1, R2	0805	RES2	2	
10k	R3	0805	RES1	1	
10k	R4	PULLUP9	RES10	1	
Res1	R5, R6, R7, R8, R9, R11	0805	Res1	6	10K, 10K, 10K, 10K, 1K, 0K
Res2	R10	0805	Res2	1	1K
	S1	SW6X6	SW-PB	1	
SW-PB	S2, S3, S4, S5	SW6X6	SW-PB	4	
MAX232CPE(16)	U1	DIP16	MAX232ACPE(16)	1	
AT89S52	U2	DIP40	AT89S5X	1	
DS1302	U3	DIP8	DS1302	1	
DS18B20	U4	TO92	DS18B20	1	
10k	VR1	VR3296-1	VR	1	
11.0592M	Y1	XTAL1	CRYSTAL	1	
32.768kHz	Y2	X32768	XTAL	1	