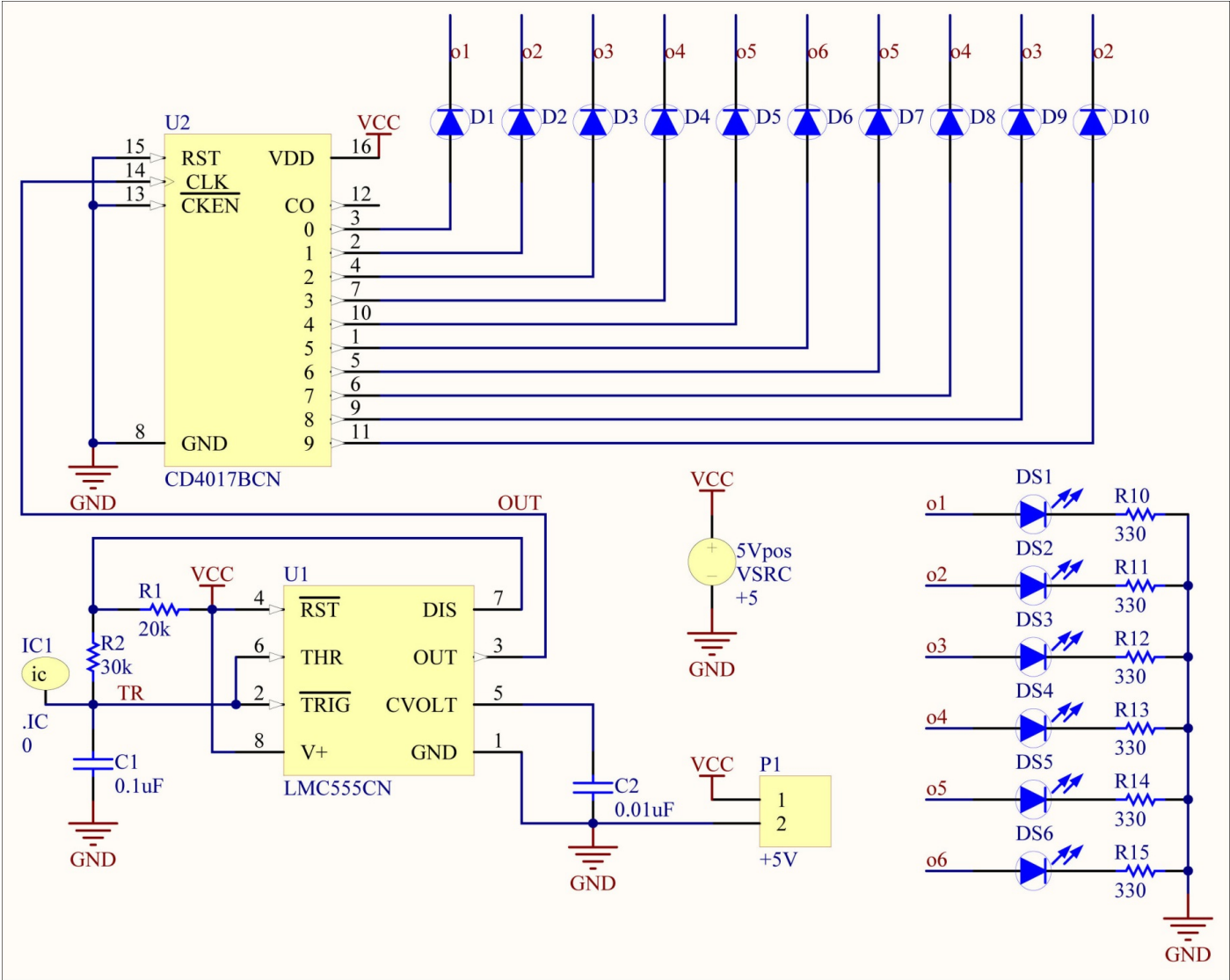
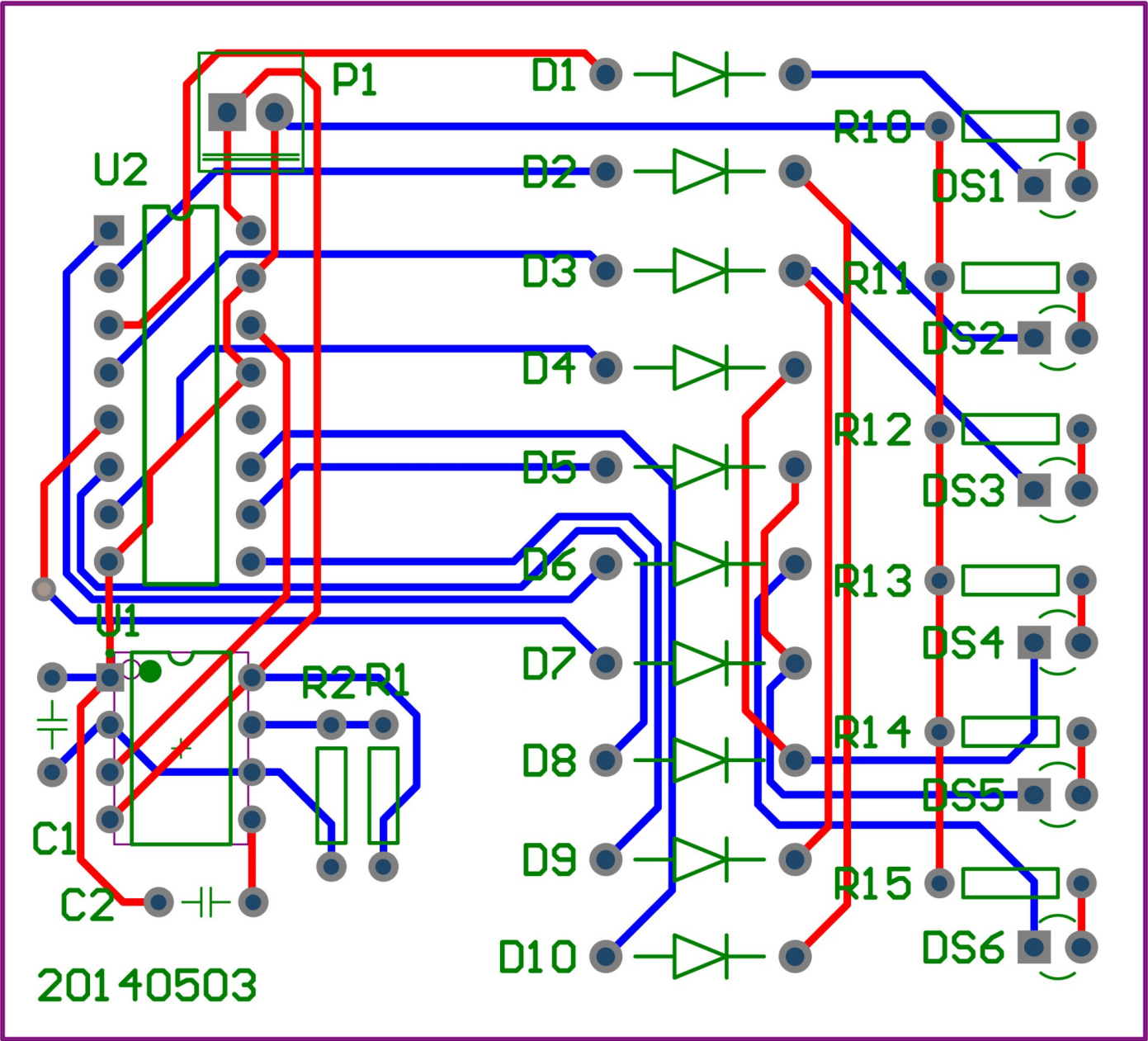


一、霹靂燈電路設計

使用 20140503.IntLib 零件庫

電路圖



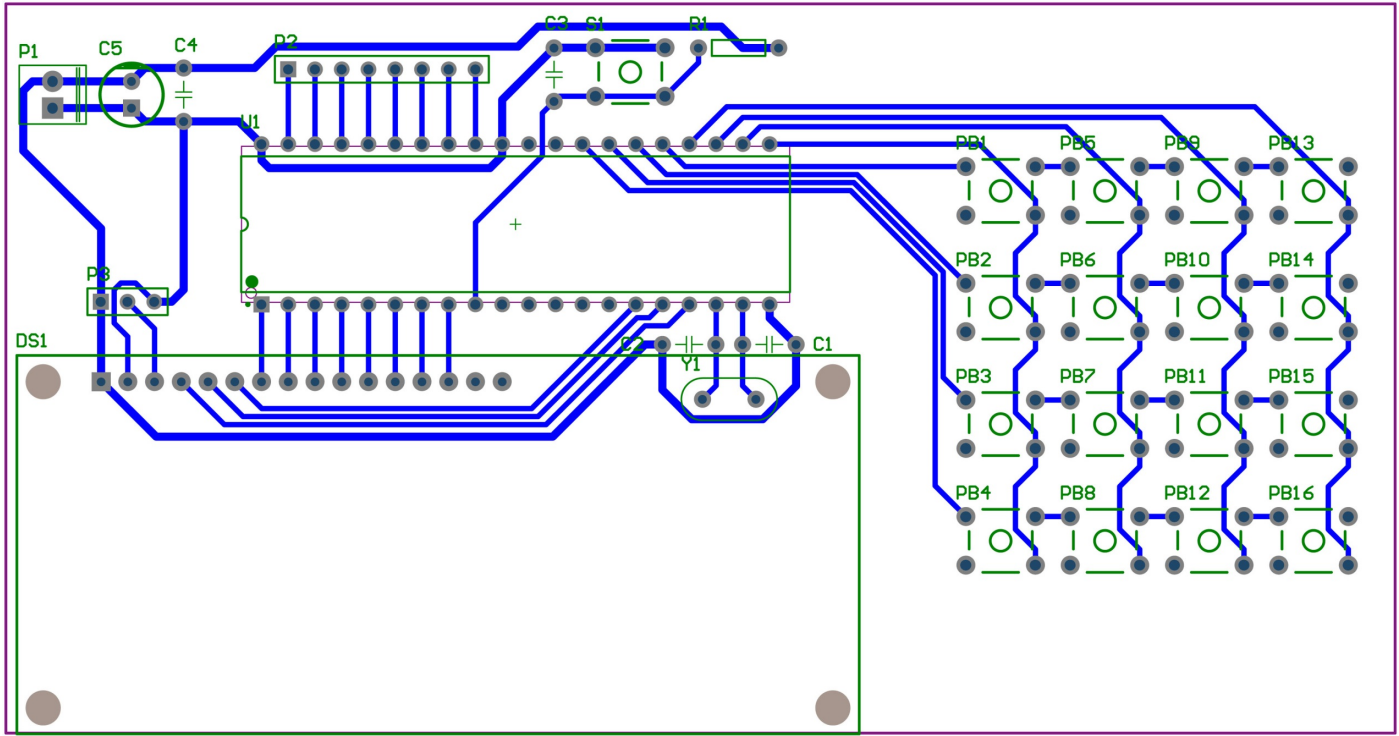
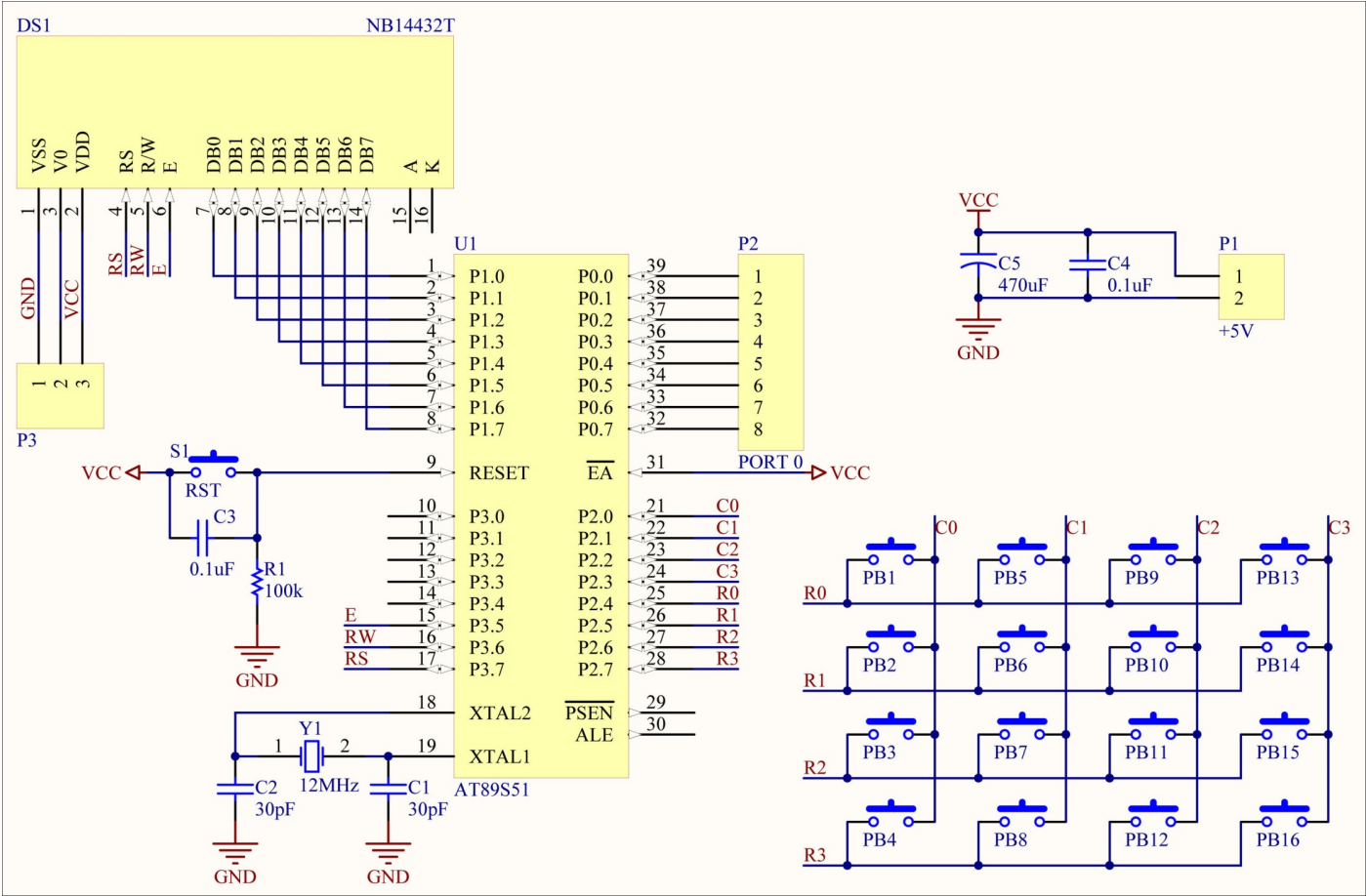


Comment	Description	Designator	Footprint	LibRef	Quantity
VSRC	Voltage Source	5Vpos		VSRC	1
Cap	Capacitor	C1, C2	C200 - 1	Cap	2
1N914	High Conductance Fast Diode	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	D400-1	1N914	10
LED1	Typical RED GaAs LED	DS1, DS2, DS3, DS4, DS5, DS6	LED-3mm_G	LED1	6
.IC	Initial Condition	IC1		.IC	1
+5V	Header, 2-Pin	P1	HEADER 2 PW-0.2	Header 2	1
1k	Resistor	R1, R2, R10, R11, R12, R13, R14, R15	AXIAL-0.3	Res1	8
LMC555CN	CMOS Timer	U1	N08E_555	LMC555CN	1
CD4017BCN	Decade Counter/Divider	U2	DIP16_4017	CD4017BCN	1

二、LCD 電路設計

使用 20140503.IntLib 零件庫

電路圖



Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor	C1, C2, C3, C4	C200 - 1	Cap	4
470uF	Capacitor	C5	CAP-260-1	Cap2	1
NB14432T	中文LCD模組	DS1	LCM_16	NB14432T	1
+5V	Header, 2-Pin	P1	HEADER 2 PW-0.2	Header 2	1
PORT 0	Header, 8-Pin	P2	HDR1X8	Header 8	1
Header 3	Header, 3-Pin	P3	HDR1X3	Header 3	1
SW-PB	Switch	PB1, PB2, PB3, PB4, PB5, PB6, PB7, PB8, PB9, PB10, PB11, PB12, PB13, PB14, PB15, PB16	TACK6	SW-PB	16
1k	Resistor	R1	AXIAL-0.3	Res	1
RST	Switch	S1	TACK6	SW-PB	1
AT89S51		U1	DIP40_8051	AT89S51	1
12MHz	Crystal Oscillator	Y1	XTAL4-8	XTAL	1