GND VCC

C3 4.7uF 16V
R1 2.2K
R2 68R
R3 68R

p1
VBUS 1
D- 2
D+ 3
GND 4
USB Connector
5
6

D1 3.6 V
D2 3.6 V
GND GND GND

vcc int
1 2
VCC

VCC   VCC
R5 1K   R6 1K
L2 Red   L1 Green
self p   Slow sck
1 2   1 2
GND

P2
2 1 MOSI
4 3 RESET
6 5
8 7 SCK
10 9 MISO
IDC 5X2
R7 1K
GND

Y1 12 MHz
1 2
C1 22pf C2 22pf
GND

U0
14 PB0 (ICP)   PC0 (ADC0) 23
15 PB1 (OC1A)   PC1 (ADC1) 24
16 PB2 (SS/OC1B)   PC2 (ADC2) 25
17 PB3 (MOSI/OC2)   PC3 (ADC3) 26
18 PB4 (MISO)   PC4 (ADC4/SDA) 27
19 PB5 (SCK)   PC5 (ADC5/SCL) 28
9 PB6 (XTAL1/TOSC1) PC6 (RESET) 1
10 PB7 (XTAL2/TOSC2)
2 PD0 (RXD)   VCC 7
3 PD1 (TXD)
4 PD2 (INT0)   AVCC 20
5 PD3 (INT1)
6 PD4 (XCK/T0)   AREF 21
11 PD5 (T1)
12 PD6 (AIN0)   GND 22
13 PD7 (AIN1)   GND 8
ATmega8A-PU

R4 10K VCC
C4 100nF VCC
GND GND

IC1
1 1   40 40
2 2   39 39
3 3   38 38
RESET 4 4 37 37
MOSI 6 5   36 36
MISO 7 6   35 35
SCK 8 7   34 34
RESET 9 8 33 33
10 9   32 32
VCC 11 10 31 31
GND 12 11 30 30
X2 12   29 29
X1 13 13   28 28 SCK
14 14   27 27 MISO
15 15   26 26 MOSI
16 16   25 25
RESET 17 17 24 24 VCC
X1 18 18   23 23 SCK
X2 19 19   22 22 MISO
20 20   21 21 MOSI
GND
IC Name: *
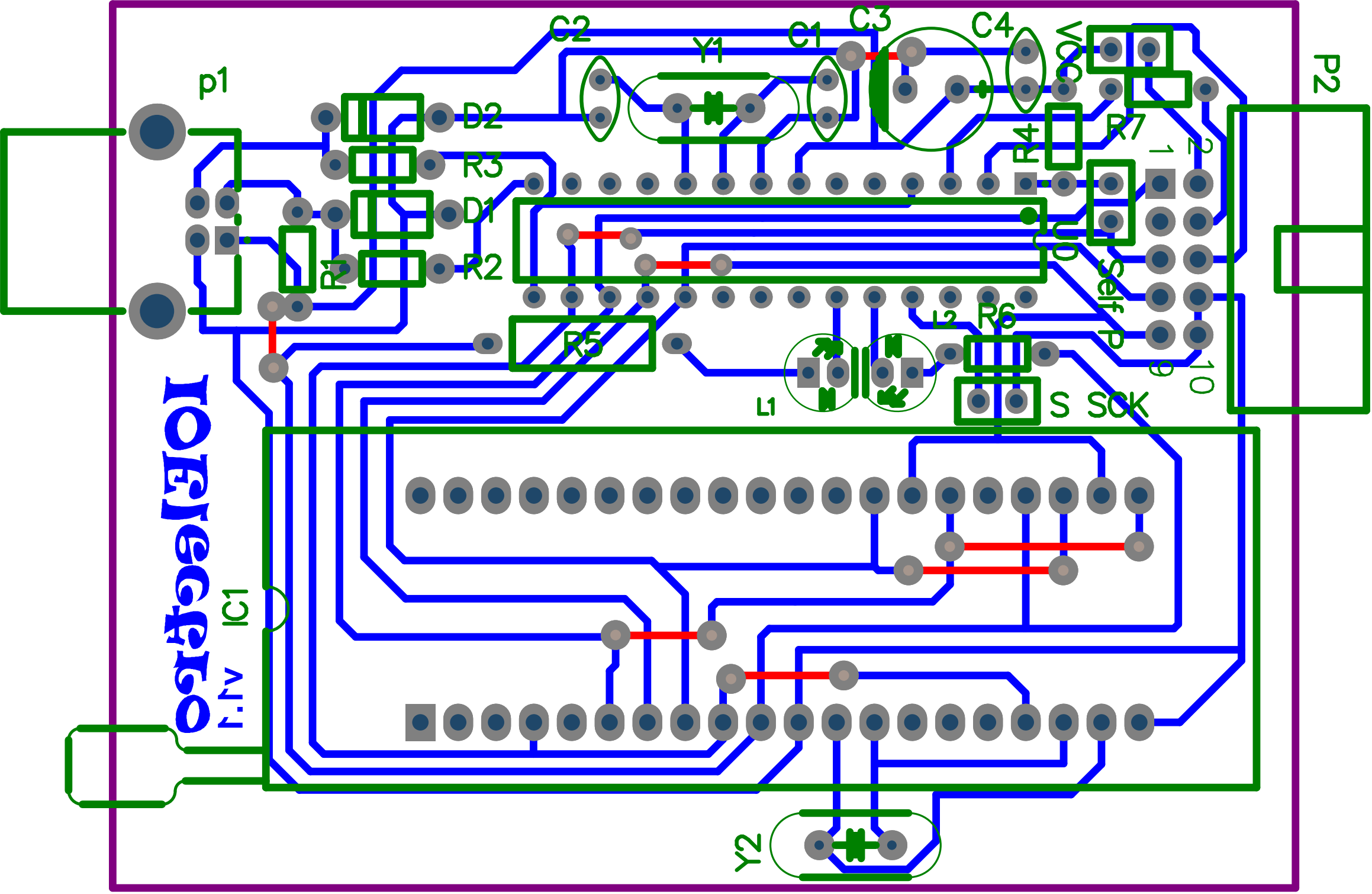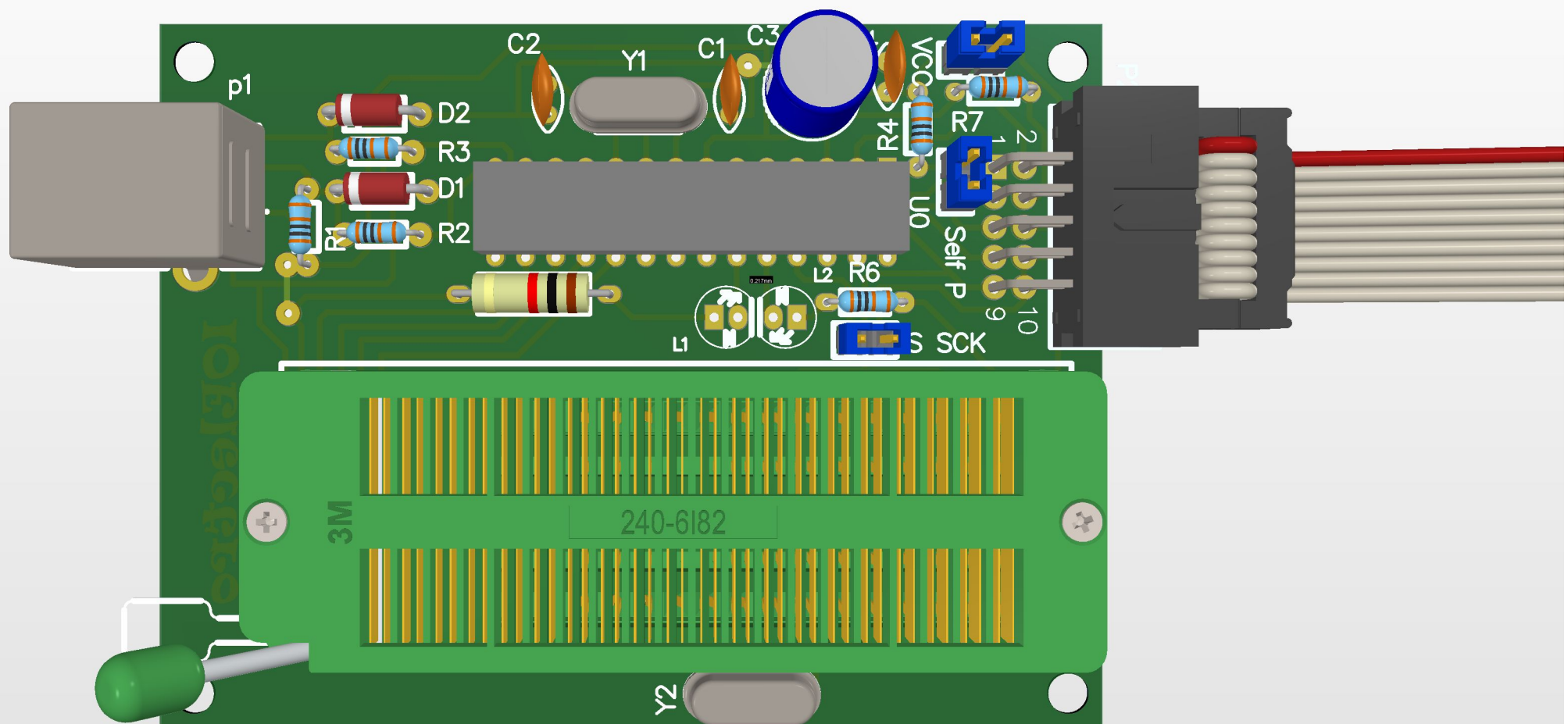IC Pins: 40

Y2 12 MHz
1 2

Title USB ASP programer   V 1.1
Size A4
Number
Revision
Date: 3/14/1400   Sheet of
File: C:\Users\..\Sheet1.SchDoc   Drawn By: Liyanboy74

Comment	Description	Designator	Quantity
22pf	Bipolar Capacitor	C1, C2	2
4.7uF	Polar Capacitor	C3	1
100nF	Bipolar Capacitor	C4	1
Diode Zener	3.6 V	D1, D2	2
Zip Socket	40pin Zip/Zif Socket	IC1	1
Green	LED	L1	1
Red	LED	L2	1
USB Connector	USB Connector-B Type	p1	1
IDC 5X2	Header, 5-Pin, Dual row	P2	1
2.2K	Resistor	R1	1
68R	Resistor	R2, R3	2
10K	Resistor	R4	1
1K	Resistor	R5, R6, R7	3
Pin Header	2x1	self p, Slow sck, vcc int	3
ATmega8A-PU	8-bit AVR Microcontroller	U0	1
12 MHz	XTAL Crystal	Y1, Y2	2