RefDes	Value	Name
C1	100uF	CAP100RP
C2	50uF	CAP100RP
C3	100nF	CAP_1206
C4	100nF	CAP_1206
C5	22pF	CAP_1206
C6	22pF	CAP_1206
D1		DIODE_1206
D2	5mm Round	LED-5R_Red
J1	Power	395211002
J3	Program	644456-6
J4	Signal	90131-0124
Q1	BC846	BC846AW
R1	270	RES_1206
R2	24	RES_1206
R3	68	RES_1206
R4	10k	RES_1206
R5	150	RES_1206
R6	470	RES_1206
U1	L78L05ABD13TR	L78L05ABD
U2	ATmega48PA-AU	ATMEGA48_TQFP
Y1	10MHz	HC49S

U1 L78L05ABD13TR — IN, OUT, NC, NC, GND

U2 ATmega48PA-AU

Vcc Vcc AVcc ADC6 ADC7

PB0(PCINT0/CLKO/ICP1) 12
PB1(PCINT1/OC1A) 13
PB2(PCINT2/SS/OC1B) 14
PB3(PCINT3/OC2A/MOSI) 15
PB4(PCINT4/MISO) 16
PB5(SCK/PCINT5) 17
PB6(PCINT6/XTAL1/TOSC1) 7
PB7(PCINT7/XTAL2/TOSC2) 8

PD0(RXD/PCINT16) 30
PC6(RESET/PCINT14) 29
PC5(ADC5/SCL/PCINT13) 28
PC4(ADC4/SDA/PCINT12) 27
PC3(ADC3/PCINT11) 26
PC2(ADC2/PCINT10) 25
PC1(ADC1/PCINT9) 24
PC0(ADC0/PCINT8) 23
AREF 20

PD1(TXD/PCINT17) 31
PD2(INT0/PCINT18) 32
PD3(PCINT19/OC2B/INT1) 1
PD4(PCINT20/XCK/T0)
PD5(PCINT21/OC0B/T1) 9
PD6(PCINT22/OC0A/AN0) 10
PD7(PCINT23/AN1) 11

GND GND GND 21 5 3

J1 Power
D1
J4 Signal
D2 5mm Round
R2 24
R3 68
R5 150
R6 470
Q1 BC846
R1 270
C3 100nF
C1 100uF
C4 100nF
C2 50uF
C5 22pF
C6 22pF
Y1 10MHz
R4 10k
J3 Program

+5V
GND