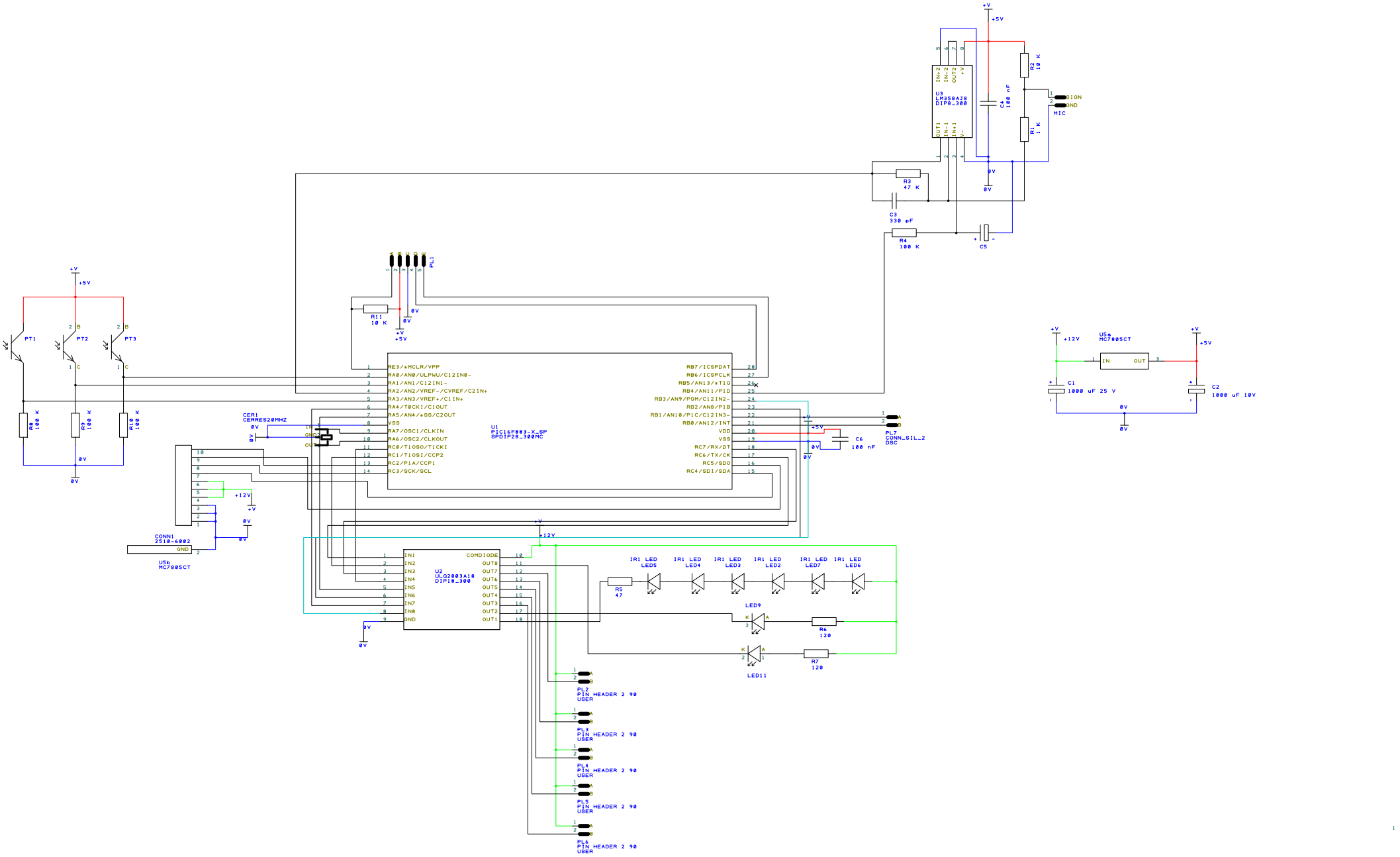
+V
+5V
U3
LM358AJ8
DIP8_300
R2
10 K
R1
1 K
C4
100 nF
SIGN
GND
MIC
R3
47 K
C3
330 pF
R4
100 K
C5
PL1
R11
10 K
PT1
PT2
PT3
R8
100 K
R9
100 K
R10
100 K
U1
PIC16F883-X_SP
SPDIP28_300MC
RE3/*MCLR/VPP
RA0/AN0/ULPWU/C12IN0-
RA1/AN1/C12IN1-
RA2/AN2/VREF-/CVREF/C2IN+
RA3/AN3/VREF+/C1IN+
RA4/T0CKI/C1OUT
RA5/AN4/*SS/C2OUT
VSS
RA7/OSC1/CLKIN
RA6/OSC2/CLKOUT
RC0/T1OSO/T1CKI
RC1/T1OSI/CCP2
RC2/P1A/CCP1
RC3/SCK/SCL
RB7/ICSPDAT
RB6/ICSPCLK
RB5/AN13/*T1G
RB4/AN11/P1D
RB3/AN9/PGM/C12IN2-
RB2/AN8/P1B
RB1/AN10/P1C/C12IN3-
RB0/AN12/INT
VDD
VSS
RC7/RX/DT
RC6/TX/CK
RC5/SDO
RC4/SDI/SDA
CER1
CERRES20MHZ
C6
100 nF
PL7
CONN_SIL_2
DSC
U5a
MC7805CT
+12V
C1
1000 uF 25 V
U5b
MC7805CT
C2
1000 uF 10V
CONN1
2510-6002
GND
U2
ULQ2803A18
DIP18_300
COMDIODE
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
GND
OUT8
OUT7
OUT6
OUT5
OUT4
OUT3
OUT2
OUT1
IR1 LED
LED5
LED4
LED3
LED2
LED7
LED6
R5
47
LED9
R6
120
LED11
R7
120
PL2
PIN_HEADER 2 90
USER
PL3
PIN_HEADER 2 90
USER
PL4
PIN_HEADER 2 90
USER
PL5
PIN_HEADER 2 90
USER
PL6
PIN_HEADER 2 90
USER
0V